



U.S. Department of Transportation

National Highway Traffic Safety Administration

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DYNAMIC SCIENCE, INC. In-Depth Accident Investigation

Contract DTNH22-94-D-27058 Case DSI-94-AB-022



TECHNICAL SUMMARY

CONTRACTOR: CONTRACT NUMBER: CASE NUMBER: Dynamic Science, Inc. DTNH22-94-D-27058 Case DSI-94-AB-022



This fatal collision occurred during a winter afternoon 94 @ 1454) in California. It was clear and the asphalt roadway was dry and free of defects.

Vehicle 1, a 1992 Chevrolet Corsica driven by a 73 year old female, was travelling at an estimated speed of 45 MPH westbound on a four-lane divided roadway approaching a three-leg intersection. Vehicle 2, a 1990 Mitsubishi Eclipse driven by a 49 year old female, was stopped at the intersection, facing south. After stopping for several seconds while waiting for traffic to clear, the driver of Vehicle 2 pulled into the intersection. The driver of Vehicle 1 saw Vehicle 2 enter the intersection, she braked and steered her vehicle to the left. The front of Vehicle 1 struck the left side of Vehicle 2 in an angle configuration. The airbag in Vehicle 1 deployed at this point. Vehicle 2 was pushed into a counterclockwise direction and came to rest next to Vehicle 1, facing east.

The driver of Vehicle 1 was in full arrest post-collision. She was transported by ambulance with no pulse or respiration. She expired at 1553 hours, less than an hour after the collision. She sustained a laceration of the heart and ascending aorta, a contusion to the pectoralis muscle on the anterior chest wall, a contusion to the epicardium and intrav-ventricular septum, as well as several abrasions to the face, neck, and extremities. The stated cause of death was massive intrathoracic hemorrhage. The fatal injuries were of a compressive-rupture nature and were caused by the driver's proximity to the airbag module during deployment. The driver of Vehicle 2 complained of pain to her right hip.

Both vehicles were towed from the scene due to damage.

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The crash investigation process is an inexact science which requires that physical evidence such as skid marks, vehicular damage measurements, and occupant contact points be coupled with the investigator's expert knowledge and experience of vehicle dynamics and occupant kinematics in order to determine the precrash, crash, and post-crash movements of involved vehicles and occupants.

Because each crash is a unique sequence of events, generalized conclusions cannot be made concerning the crashworthiness performance of the involved vehicle(s) or their safety systems.

DYNAMIC SCIENCE, INC. ACCIDENT INVESTIGATION CASE NUMBER: DSI-94-AB-022

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ACCIDENT DATA:

Location:
Area/Type:
Urban
Winter / Afternoon
Accident Type:
Car/Car, front to left side

Vehicle 1:
Driver, AIS-6

Vehicle 2:
Driver, complaint of pain

AMBIENCE:

Viewing Conditions: Daylight

Cloud Cover: Clear

Precipitation: None

Road Surface: Dry

ROADWAY:

VEHICLE 1

VEHICLE 2

Type:

Arterial divided trafficway

Residential divided

trafficway

Number of Lanes:

5

2

Width:

25.3 M (83 ft.)

15.5 M (51 ft.)

Traffic Density:

Light

Light

Median:

Raised, curbed 1.2 meters

Raised, curbed 2.4 meters (8 ft)

(3.8 ft)

Curbed on North, dirt

shoulder on South

Curbed

Surface:

Edge:

Asphalt

Asphalt

Reported Defects:

None

None

Co-efficient of Friction (est.):

0.70

0.70

Vertical Alignment:

Level

4% down grade

Horizontal Alignment:

Slight curve

[R = 1,905 m]

(6,250 ft)]

Straight

TRAFFIC CONTROLS:

VEHICLE 1

VEHICLE 2

Signals:

None

None

Signs:

None applicable

Stop Sign

Speed Limit:

80 KPH (50 MPH)

40 KPH (25 MPH)

Markings:

Dashed, white lines to

None

left turn lane

Towed, due to damage

VEHICLES:

Tow Status:

	VEHICLE 1	VEHICLE 2
Description:	1992 Chevrolet Corsica four-door sedan	1990 Mitsubishi Eclipse two-door coupe
Odometer:	15,901 km (9,881 mi.)	Unknown, not inspected
Engine:	3.1 L / 4 cyl.	1.8 L / 4 cyl., per V.I.N.
Vehicle Modifications:	None	None
Tire Condition:	Good	Good (photographs)
Manual Restraints:	Lap and shoulder belts front seating positions, and the left and right rear seating positions; lap belt center rear seating positions.	Lap belts, front seating postions, per V.I.N.
Automatic Restraints:	Supplemental Restraint System (driver's side airbag)	Automatic shoulder belts, per V.I.N.
Reported Defects:	None	None
Cargo:	Unknown	Unknown
Windshield Damage:	None	None (photographs)
Fleet:	No	No

Towed, due to damage

VEHICLE DAMAGE:

VEHICLE 1VEHICLE 2Object Struck:V2V1Event Number:0101CDC:12FDEW109LPEW2 (photographs)Maximum Crush:14 cm (5.6 in.)Zone 2

VEHICLE VELOCITY ESTIMATES:

	VEHICLE 1	VEHICLE 2
Impact Speed: (estimated)	35 KPH (22 MPH)	8 KPH (5 MPH)
Total Delta V:	11 KPH (7 MPH)	12 KPH (7 MPH)
Longitudinal Delta V:	-11 KPH (-7 MPH)	-2 KPH (-1 MPH)
Lateral Delta V:	-1 KPH (-1 MPH)	+12 KPH (+7 MPH)
Energy Dissipation:	8136.7 joules (5982.9 ft lbs)	5432.1 joules (3928.4 ft lbs)

The following stiffness values were used during the CRASH run: Vehicle 1 (a = 239.3, b = 61.8), Vehicle 2 (a = 180, b = 67).

COLLISION SEQUENCE:

Pre-Crash:

Vehicle 1 was travelling westbound on a five lane, divided, two way, urban asphalt trafficway at approximately 76 KPH (47 MPH) in the second (median) lane. Vehicle 2 was stopped at stop sign, facing south. The driver of Vehicle 2 had just left her home and was en route to a supermarket. The driver of Vehicle 1 apparently saw Vehicle 2 enter the travel lane; she braked and steered to the left.

Crash:

The front of Vehicle 1 struck the left side of Vehicle 2 in what amounted to an angle configuration at an EDCRASH computed speed of 35 KPH (22 MPH). Vehicle 1 experienced a Delta V of 11 KPH (7 MPH) and 12 KPH (7 MPH) for Vehicle 2. The Delta V was of sufficient magnitude to deploy the Supplemental Restraint System (SRS), driver's side air bag, in Vehicle 1.

Post-Crash:

<u>Final rest</u>. Vehicle 1 came to rest partially in its original travel lane and partially in the adjacent lane; it was heading approximately 5 degrees counterclockwise from its pre-crash heading. Vehicle 2 rotated sharply and came to rest facing nearly 90 degrees from its original path of travel.

<u>Driver activities</u>. The driver of Vehicle 1 was sitting in the driver seat and apparently unresponsive. She was removed by ambulance personnel and transported to the hospital where she was pronounced dead on arrival.

The driver of Vehicle 2 was fully alert and aware of her surroundings. She complained of a sore right hip which she attributed to the emergency brake in the center console of her vehicle.

Rescue activities. The driver of Vehicle 1 was removed from the scene by paramedics and transported to a trauma hospital. A chronology of rescue activities is shown in the following table.

Event Tim	e Event
1454	Collision
1458	Ambulance called
1502	Arrived on scene
1525	Departed from scene
1535	Arrived at hospital
1538	Admitted to hospital
1553	Time of death

<u>Scene clearance</u>. Vehicles 1 and 2 were towed from the scene due to damage.

Occupant Kinematics:

The driver was sitting directly in front of the steering wheel just prior to the collision. Her seat was adjusted to 6.6 cm (2.6 in.) rearward of the forward most position, putting the bottom of the steering wheel rim roughly even with the forward portion of the seat. According to on-scene witnesses, the driver was wearing her lap and shoulder belt. Prior to the collision the driver had her right foot on the brake and her left on the floorboard. Vehicle 1 had apparently been serviced recently since there was a protective paper floor mat in use at the time of the collision. Post-collision, this mat was torn in a manner which would suggest that the driver's foot had come into contact with it.

The driver recognized the impending collision. She braked with her right foot and steered to the left. The pre-impact braking brought the driver forward and nearly into contact with the steering wheel hub.

At impact, the driver appears to have been twisted slightly to the left. At the time of deployment of the air bag, her upper body may possibly have been in contact with the hub, but more likely a short distance back from it. The driver's left knee contacted the lower instrument panel, resulting in a small abrasion. At deployment the module opened in the designed fashion. The upper flap, after initially contacting her chest, rotated vertically upward as designed and contacted her neck and chin, with slightly more contact to the left side than to the right. The lower flap appears to have been restricted somewhat by the proximity of the driver's

upper torso, with the resulting back pressure cracking both the inner (hard plastic) and outer (soft plastic) covers. There is evidence (a clothing transfer) that indicates the driver came into contact with the exterior of the module cover. The concussive force of the deployment was primarily to the left side of the driver's upper body causing a laceration of the heart and the ascending aorta.

The steering column was displaced approximately 3.8 cm (1.5 in.) forward with complete shear capsule separation as a result of the driver's proximity to the module cover during the initiation of the airbag deployment sequence. The airbag contacted the driver's lips during deployment as noted by the red lipstick transfer on the left upper quadrant of the airbag. There were also abrasions to the left side of the driver's face from contact with the expanding airbag.

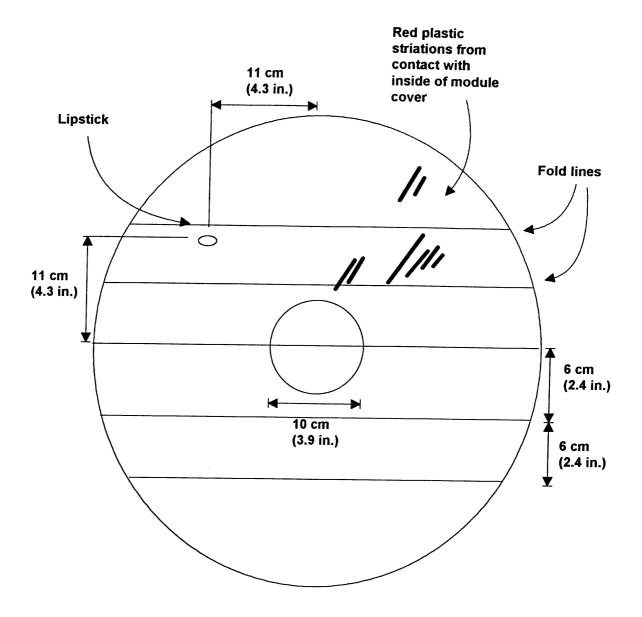
There is a laceration to the dorsal aspect of the left hand. It appears that the driver was holding onto the rim with both hands and the left one gave way. The deceleration forces, either from braking or the impact, were such that her hand swivelled forward presenting the dorsal portion of her hand to the instrument panel. When her fingers could no longer retain her grip her left hand slipped from the steering wheel rim and struck a switch on the upper part of the left instrument panel.

Supplemental Restraint System:

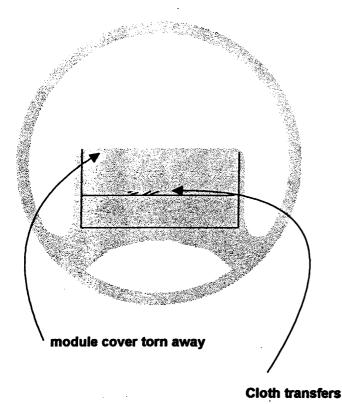
Vehicle 1 was equipped with a supplement restraint system (driver's side air bag) that deployed as a result of Vehicle 1's frontal impact with the left side of Vehicle 2. The driver's airbag deployed from the module assembly that was contained within the two-spoke steering wheel. The module cover flaps opened in an H-configuration at the designated tear points. The left upper edge of the upper flap broke away as a result of the deployment. There was a cloth transfer on the lower edge of the upper flap. The hard plastic inner liner of the module cover was broken away at the time of inspection. The airbag itself was not damaged. There were red-colored striations in the upper right quadrant of the air bag due to contact with the back side of the module cover. There was a lipstick imprint on the left upper quadrant of the air bag from the driver.

Safety Standards:

There were no violations of Federal Motor Vehicle Safety Standards and Regulations found during the inspection of Vehicle 1.



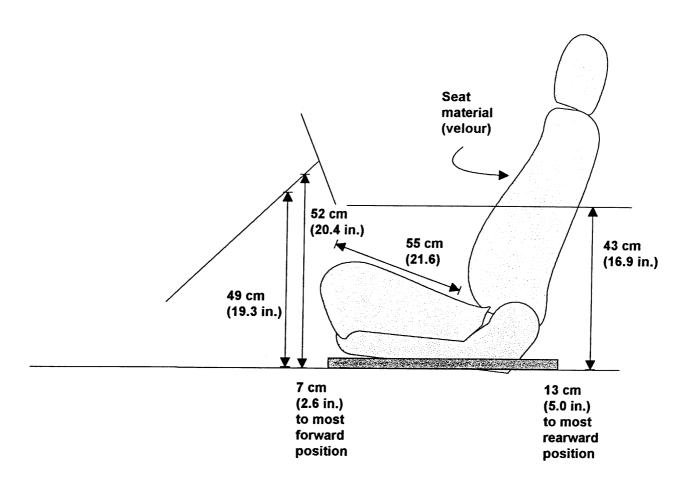
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DRIVER AND OTHER OCCUPANTS:

VEHICLE 1

DRIVER

Age/Sex:

73 / Female

Seated Position:

Left front

Seat Type:

Bucket

Height:

150 cm (59 in.)

Weight:

58 kg (128 lbs.)

Occupation:

Retired

Pre-existing Medical

Condition:

Severe coronary arteriosclerosis and atherosclerotic

cardiovascular disease

Alcohol/Drug Involvement:

None

Driving Experience:

Unknown

Body Posture:

Forward from pre-impact braking and possibly leaning somewhat to the right from the left-hand evasive maneuver.

Hand Position:

Both hands on wheel, clock

positions not known

Foot Position:

Left on floorboard, right

on brake

Restraint Usage:

Supplemental restraint system (driver's side air bag), manual lap and shoulder belt used

Additional Occupants:

None

DRIVER AND OTHER OCCUPANTS (con't):

VEHICLE 2

DRIVER

Age/Sex:

49 / Female

Seated Position:

Left front

Seat Type:

Bucket with folding back

Height:

160 cm (63 in.)

Weight:

50 kg (110 lbs.)

Occupation:

Unknown

Pre-existing Medical

Unknown

Condition:

Alcohol Involvement:

None

Driving Experience:

Unknown

Body Posture:

Unknown

Hand Position:

Unknown

Foot Position:

Unknown, presumed to be on

accelerator

Restraint Usage:

Automatic shoulder belt,

manual lap belt, both used

Additional Occupants:

None

INJURIES:

Vehicle 1

DRIVER:	INJURY	OIC CODE	ICD-9	SOURCE
	Aorta laceration	420218.6,4	861.03	Airbag module
	Heart laceration (multiple)	441016.6,4	861.03	Airbag module
	Heart contusion	441002.3,4	861.01	Airbag module
	Abrasion, nostril	290202.1,4	910.0	Airbag
	Abrasion, left knee	890202.1,2	916.0	Lower instrument panel
	Abrasion, left big toe	890202.1,2	917.0	Toe pan
	Laceration (2.5 cm), left hand	790600.1,2	882.0	Instrument panel/light switch
	Contusion, left hand	790402.1,2	914.0	Instrument panel
	Abrasion, left cheek	290202.1,2	910.0	Airbag
	Abrasion, left forearm	790202.1,2	913.0	Airbag
	Abrasion, chin	290202.1,8	910.0	Module cover
	Abrasion, neck	390202.2,5	910.0	Module cover

Statement of medical consultant regarding the mechanism of injuries:

The weight of evidence, I believe, favors a predominant role for the airbag and casing. There is no evidence of seat belt contusion or abrasion of the skin, and the abrasions to the chin and face and nares are suggestive of contact with the airbag casing and expanding airbag, suggesting victim proximity to the detonating airbag complex. It is not possible to

[&]quot;It appears that this victim died rapidly from exsanguination from cardiac and aortic laceration. These injuries were likely of a compressive-rupture nature rather than a laceration from penetrating rib or sternal ends as there were no fractures to either ribs or sternum. The compression sustained by the aorta and heart could have been secondary to loading from the shoulder component of the belt system, the airbag and its casing, or impact with the steering wheel hub, or all the above.

ascertain whether the thoracic injuries were the result of contact with the airbag module cover or the expanding airbag.

It is unlikely that the pacemaker contributed to her injuries, and while her coronary arteries were seen to be partially occluded, this is a normal finding in victims of this age and not likely to make the heart muscle more susceptible to laceration from external compression."

Vehicle 2

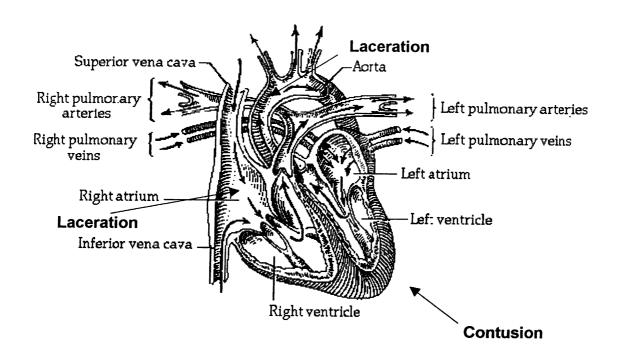
INJURY

OIC CODE

ICD-9 SOURCE

DRIVER:

No reported injuries



Abbreviations Used In Narrative, Scene And Photographic Documentation

ft Feet in Inches

:-...

AIS Abbreviated Injury Scale

BLF Begin Left Front
BLR Begin Left Rear
BRF Begin Right Front
BRR Begin Right Rear
CBE Cab Behind Engine
CCW Counterclockwise

CDC Collision Deformation Classification

CG Center of Gravity

CM Centimeter

COE Cab Over Engine

CW Clockwise

E, EB East, Eastbound ELF End Left Front ELR End Left Rear **ERF** End Right Front End Right Rear ERR **FRP** Final Rest Position I Interstate Highway IP Intermediate Point

KG Kilogram

KPH Kilometers Per Hour

LF Left Front
LR Left Rear
M Meter

N, NB North, Northbound

NE Northeast NW Northwest

PDOF Principal Direction of Force

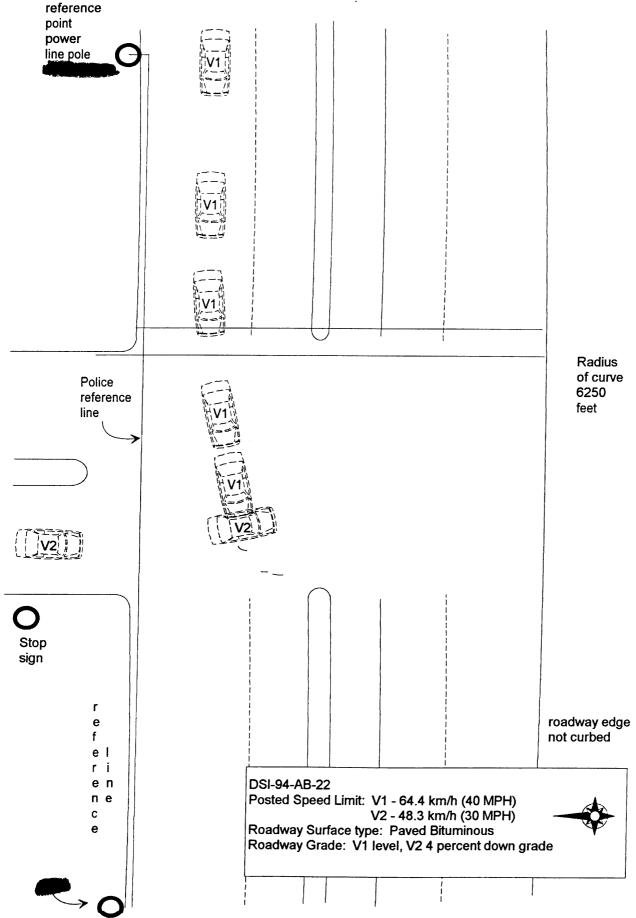
POI Point of Impact
RF Right Front
RL Reference Line
RP Reference Point
RR Right Rear

S, SB South, Southbound

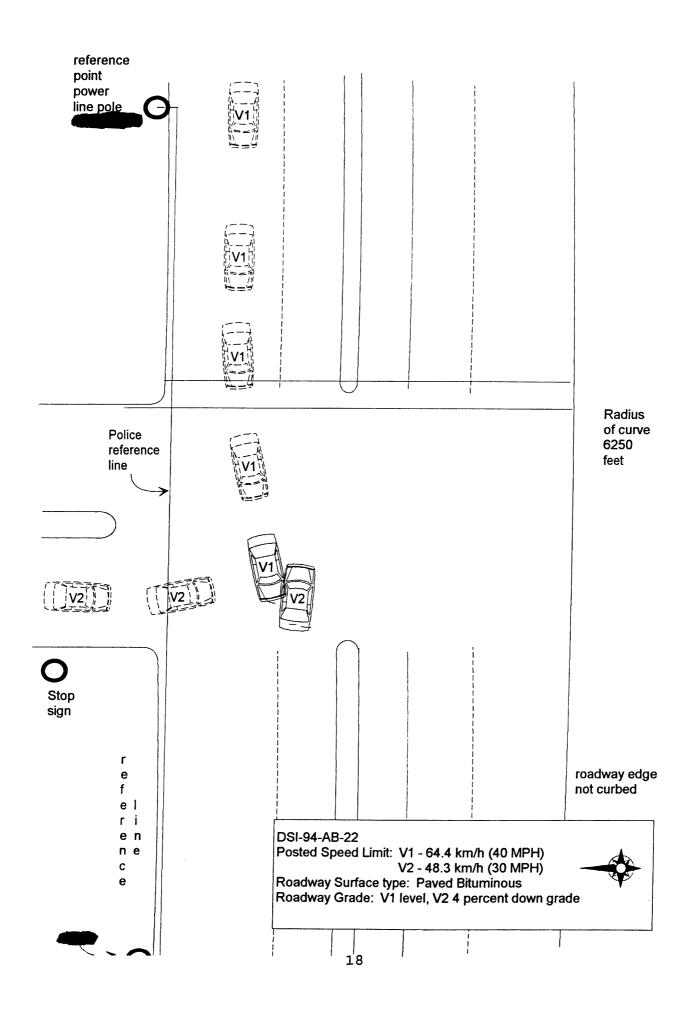
SE Southeast SW Southwest

T Time or Elapsed Time (in seconds)

U.S. United States Highway
V1 Vehicle Number 1
W, WB West, Westbound



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COLLISION MEASUREMENTS Case Number DSI-94-AB-022

Reference Point:

RP #1 - Power Line Pole, 0.7 meters (2.3 ft) north of curb edge (reference line) and 19.2 meters (63 ft) east of east curb line. RP #2 - Power line pole, 0.7 meters (2.3 ft) north of curb edge (reference line) and 20.3 meters (66.6 ft) west of west curb edge.

Reference Line:

North roadway curb edge

DATA POINT	LONGITUDINALS	LATERALS
Westbound lane widths, North to South (RP #1)		
1 (Vehicle 1 travel lane)	0	S 7.22 m (23.7 ft)
2	0	S 10.92 m (35.8 ft)
Center curbed median	0	S 12.12 m (39.6 ft)
3	0	S 15.22 m (49.7 ft)
4	0	S 19.12 m (62.6 ft)
5	0	S 25.32 m (83.1 ft)
Southbound lane widths - West to East (RP #2)		
1 (Vehicle 2 travel lane)	E 26.9 m (88.3 ft)	0
Center curbed median	E 29.3 m (96.3 ft)	0
2	E 35.5 m (117.6 ft)	0
Roadway scrapes - semi U shaped, #3 (RP #1)		
1 - begin	W 31.5 m (103.5 ft)	S 6.4 m (21.0 ft)
1 - end	W 31.6 m (103.7 ft)	S 6.9 m (22.5 ft)
2 - begin	W 33.2 m (108.9 ft)	S 7.9 m (25.9 ft)
2 - end	W 33.2 m (109.4 ft)	S 8.6 m (28.2 ft)
3 - begin	W 33.3 m (109.4 ft)	S 8.6 m (28.2 ft)
3 - end	W 33.4 m (109.6 ft)	S 9.2 m (30.2 ft)
Radius of curve - east/westbound travel lanes = 1,905 m (6,250 ft)	Vehicle 1 grade = level	Vehicle 2 grade = 4% down

PHOTO / SLIDE INDEX

Case Number DSI-94-AB-022

VEHICLE NO.	DIRECTION OF PICTURE	SUBJECT MATTER
1	West	Approach to area of impact
1	West	Impact area
1	East	Looking back along path of travel
2	South	Approach to area of impact
2	South	Area of impact
2	North	Looking back along path of travel
NA		Reference point
1	CCW	Vehicle exterior
1	NA	Vehicle interior. Note: #33 shows possible contact on roof rail, #37 shows cracked module cover, #49-50 show instrument panel separation, #52-53 show shear capsule separation.
	NO. 1 1 2 2 2	NO. OF PICTURE 1 West 1 West 1 East 2 South 2 South 2 North NA 1 CCW











































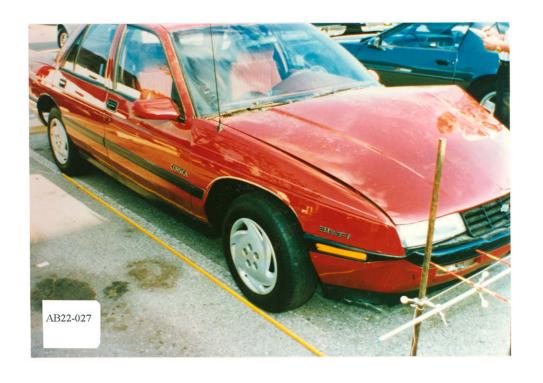
























































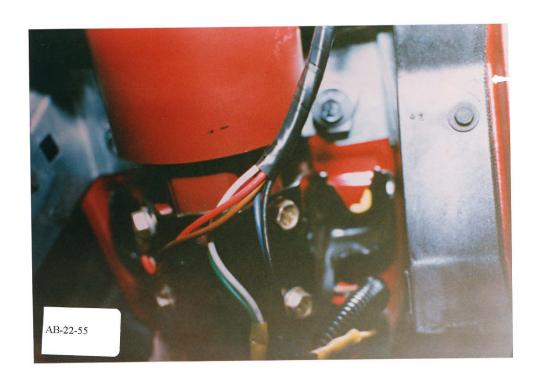




































94-22#10











st Availat



DS 94-22#10 Best Available



DS 94-22#1 Best Availab



et Available



204-55418





































94-22#37







DS94-22#40



DS94-22#41





























POLICE PHOTO INDEX

(Selected photos)
Case No. DSI-94-AB-022

PHOTO NO.	VEHICLE NO.	DIRECTION OF PICTURE	SUBJECT MATTER
1-4	1/2	East	Final rest of both vehicles. Photo #4 shows closeup of damage to Vehicle 1.
5	1/2	South	Final rest of both vehicles. This photo shows closeup of damage to both vehicles.
6-8	1/2	North	Final rest of both vehicles.
9	1/2	West	Close up view of final rest.
10-11	1/2	South	Final rest of both vehicles.
12-15	1	NA	Interior of vehicle.

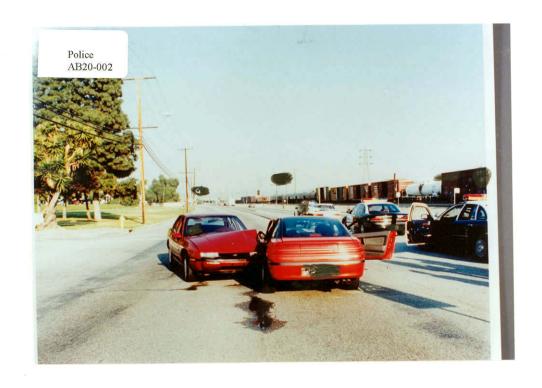
AUTOPSY PHOTO INDEX

(Selected views)

Case No. DSI-94-AB-022

РНОТО NO.	SUBJECT MATTER
1	Lower arm abrasion.
2	Contusion to dorsal aspect of left hand.
3	Abrasion to chin and anterior neck, abrasion to left cheek, and abrasion to nares.
4	Closeup view of abrasion to chin and neck area.
5	Overview of victim.
6	View of cardiac injury.



















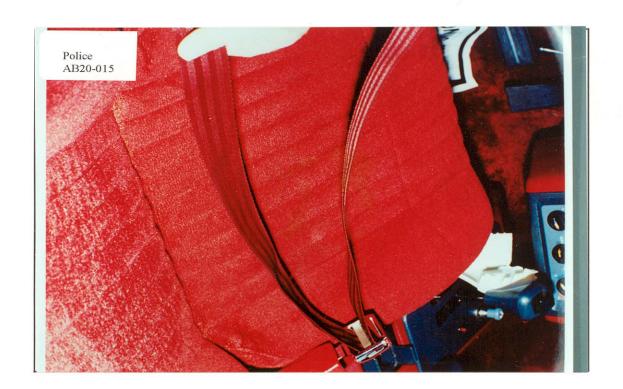












"GRAPHIC" PHOTOGRAPHS AND IMAGES

The following "GRAPHIC" Photographs and Images have been removed from this case.

Autopsy Photo # 1-6

If you would like a copy of these photographs and/or images please write to:

MARJORIE SACCOCCIO VOLPE NATIONAL TRANSPORTATION SYSTEMS CENTER 55 BROADWAY CAMBRIDGE, MA 02142

In the body of your request please include the case, photograph and image number(s).

NATIONAL ACCIDENT SAMPLING SYSTEM

National Highway Traffic Safety **ACCIDENT FORM** Administration CRASHWORTHINESS DATA SYSTEM SPECIAL STUDIES - INDICATORS 1. Primary Sampling Unit Number Check (✓) each special study (SS14-SS18 below) that AB 22 2. Case Number - Stratum has been completed; code 1 for the checked special studies and 0 for the special studies not checked. **IDENTIFICATION** 6. SS15 Administrative Use 3. Number of General Vehicle Ø Forms Submitted Ø Z 7. ____SS16 Pedestrian Crash Data Study Ø WINTER/WEEKDAY 4. Date of Accident (Month, Day, Year) 8. SS17 Impact Fires **4** 5. Time of Accident 9. ___SS18 ____ AFTERNOON 4 Code reported military time of accident. 10. ___SS19 ____ ¢ NOTE: Midnight = 2400 Unknown = 9999NUMBER OF EVENTS 11. Number of Recorded Events in This Accident 4 1 Code the number of events which occurred in this accident. **ACCIDENT EVENTS** For each event that occurred in the accident, code the lowest numbered vehicle in the left columns and the other involved vehicle or object on the right. Accident Event General Vehicle Number General Sequence Vehicle Class Of Area of Class Of Area of Number Number Vehicle Damage **Object Contacted** Vehicle Damage 13. <u>\$\phi I</u> 14. <u>\$\phi Z</u> 15. <u>F</u> 16. めこ 17. ϕ / 18. L 19. 0 2 21. ____ 22. 23. 24. 27. ____ 28. ____ 29. ___ 30. ___ 35. ____ 34. ____ 36. 37. ____ 38. ____ 40. 0 5 42. 43. 45. 46.

IF GREATER THAN FIVE EVENTS, CONTINUE CODING ON THE ACCIDENT EVENT SUPPLEMENT

CODES FOR CLASS OF VEHICLE

- (00) Not a motor vehicle
- (01) Subcompact/mini (wheelbase < 254 cm)
- (02) Compact (wheelbase \geq 254 but < 265 cm)
- (03) Intermediate (wheelbase \geq 265 but < 278 cm)
- (04) Full size (wheelbase ≥ 278 but < 291 cm)
- (05) Largest (wheelbase ≥ 291 cm)
- (09) Unknown passenger car size
- (11) Compact utility vehicle
- (12) Large utility vehicle (≤ 4,500 kgs GVWR)
- (13) Passenger van (≤ 4,500 kgs GVWR)
- (14) Other van (≤ 4,500 kgs GVWR)
- (15) Pickup truck (≤ 4,500 kgs GVWR)
- (18) Other truck (≤ 4,500 kgs GVWR)
- (19) Unknown light truck type
- (20) School bus
- (21) Other bus

. . . .

333

- (22) Truck (> 4,500 kgs GVWR)
- (23) Tractor without trailer
- (24) Tractor-trailer(s)
- (25) Motored cycle
- (28) Other vehicle
- (99) Unknown

CODES FOR GENERAL AREA OF DAMAGE (GAD)

CDS APPLICABLE AND

OTHER VEHICLES

- (0) Not a motor vehicle
- (N) Noncollision
- (F) Front
- (R) Right side
- (L) Left side
- (B) Back
- (T) Top
- (U) Undercarriage
- (9) Unknown

TDC APPLICABLE **VEHICLES**

- (0) Not a motor vehicle
- (N) Noncollision
- (F) Front
- (R) Right side
- (L) Left side
- (B) Back of unit with cargo area (rear of trailer or straight truck)
- (D) Back (rear of tractor)
- (C) Rear of cab
- (V) Front of cargo area
- (T) Top
- (U) Undercarriage
- (9) Unknown

CODES FOR VEHICLE NUMBER OR OBJECT CONTACTED

(01-30) — Vehicle Number

Noncollision

- (31) Overturn rollover
- (32) Fire or explosion
- (33) Jackknife
- (34) Other intraunit damage (specify):
- (35) Noncollision injury
- (38) Other noncollision (specify):
- (39) Noncollision details unknown

Collision With Fixed Object

- (41) Tree (≤ 10 cm in diameter)
- (42) Tree (> 10 cm in diameter)
- (43) Shrubbery or bush
- (44) Embankment
- (45) Breakaway pole or post (any diameter)

Nonbreakaway Pole or Post

- (50) Pole or post (≤ 10 cm in diameter)
- (51) Pole or post (> 10 cm but \leq 30 cm in diameter)
- (52) Pole or post (> 30 cm in diameter)
- (53) Pole or post (diameter unknown)
- (54) Concrete traffic barrier
- (55) Impact attenuator
- (56) Other traffic barrier (includes guardrail) (specify):

- (57) Fence
- (58) Wall
- (59) Building
- (60) Ditch or culvert
- (61) Ground
- (62) Fire hydrant
- (63) Curb
- (64) Bridge
- (68) Other fixed object (specify):
- (69) Unknown fixed object

Collision with Nonfixed Object

- (71) Motor vehicle not in-transport
- (72) Pedestrian
- (73) Cyclist or cycle
- (74) Other nonmotorist or conveyance
- (75) Vehicle occupant
- (76) Animal
- (77) Train
- (78) Trailer, disconnected in transport
- (79) Object fell from vehicle in-transport
- (88) Other nonfixed object (specify):
- (89) Unknown nonfixed object
- (98) Other event (specify):
- (99) Unknown event or object

lational Highway Traffic Safety Administration	GENERAL V	EHICLE FORM NATIONAL ACCIDENT SAM CRASHWORTHINESS	IPLING SYS
Primary Sampling Unit Number Case Number - Stratum Vehicle Number VEHICLE IDENTIFICA	A B 2 Z	11. Police Reported Alcohol Presence (0) No alcohol present (1) Yes (alcohol present) (7) Not reported (8) No driver present (9) Unknown	9
4. Vehicle Model Year Code the last two digits of the mo (99) Unknown	9 <u>2</u> odel year	Note: See variables 37 through 55 (Page 4) for information on Other 12. Alcohol Test Result For Driver Code actual value (decimal implied before first digit—0.xx)	r Drugs
5. Vehicle Make (specify): CHEVROLET Applicable codes are found in you NASS Data Collection, Coding and Editing Manual. (99) Unknown	<u>2</u> \$	(95) Test refused (96) None given (97) AC test performed, results unknow (98) No driver present (99) Unknown Source: PAR	'n
6. Vehicle Model (specify):	<u> </u>	ACCIDENT RELATED	
Applicable codes are found in your NASS Data Collection, Coding and Editing Manual. (999) Unknown	-	13. Speed Limit (000) No statutory limit Code posted or statutory speed limit in kph (999) Unknown	<u></u> <u></u> <u>φ</u>
 Body Type Note: Applicable codes may be fouther back of this page. 	and on <u>d</u> <u>4</u>		<u>ф</u> В
8. Vehicle Identification Number 1 G I L T 5 3 T 9 N Y 1 2 3 4 5 6 7 8 9 10 11 12 Left justify; Slash zeros and letter 2 No VIN—Code all zeros Unknown—Code all nines OFFICIAL RECORDS 9. Police Reported Vehicle Disposition (0) Not towed due to vehicle damage (1) Towed due to vehicle damage (9) Unknown	Z (Ø and Z)	(02) Braking (no lockup) (03) Braking (lockup) (04) Braking (lockup unknown) (05) Releasing brakes (06) Steering left (07) Steering right (08) Braking and steering left (09) Braking and steering right (10) Accelerating (11) Accelerating and steering left (12) Accelerating and steering right (97) No driver present (98) Other action (specify):	
. Police Reported Travel Speed	9 9 9	15. Accident Type Applicable codes may be found on the back of page two of this field form (00) No impact	83
Code to the nearest kph (NOTE: 00 less than 0.5 kph) (160) 159.5 kph and above (999) Unknown	0 means	Code the number of the diagram that best describes the accident circumstance (98) Other accident type (specify):	
mph X 1.6093 = kph		(99) Unknown	

:: :: :::

CODES FOR BODY TYPE

CDS APPLICABLE VEHICLES

Automobiles

- (01) Convertible (excludes sun-roof, t-bar)
- (02) 2-door sedan, hardtop, coupe
- (03) 3-door/2-door hatchback
- (04) 4-door sedan, hardtop
- (05) 5-door/4-door hatchback
- (06) Station wagon (excluding van and truck based)
- (07) Hatchback, number of doors unknown
- (08) Other automobile type (specify):
- (09) Unknown automobile type

Automobile Derivatives

- (10) Auto based pickup (includes El Camino, Caballero, Ranchero, Brat, and Rabbit pickup)
- (11) Auto based panel (cargo station wagon, auto based ambulance/hearse)
- (12) Large limousine more than four side doors or stretched chassis
- (13) Three-wheel automobile or automobile derivative

Utility Vehicles (≤ 4,500 kgs GVWR)

- (14) Compact utility (Jeep CJ-2 CJ-7, Scrambler, Golden Eagle, Renegade, Laredo, Wrangler, Cherokee [84 and after], Dispatcher, Raider, Bronco II, Bronco [76 and before], Explorer, S-10 Blazer, Geo Tracker, Bravada, S-15 Jimmy, Thing, Pathfinder, Trooper, Trooper II, Rodeo, Amigo, Navajo, 4-Runner, Montero, Samurai, Sidekick, Rocky)
- (15) Large utility (includes Jeep Cherokee [83 and before], Ramcharger, Trailduster, Bronco-fullsize [78 and after], fullsize Blazer, fullsize Jimmy, Landcruiser, Rover, Scout)
- (16) Utility station wagon (Chevy Suburban, GMC Suburban, Travelall, Grand Wagoneer, includes suburban limousine)
- (19) Utility, unknown body type

Van Based Light Trucks (≤ 4,500 kgs GVWR)

- (20) Minivan (Chrysler Town and Country, Caravan, Grand Caravan, Voyager, Grand Voyager, Mini-Ram, Dodge/Plymouth Vista, Aerostar, Villager, Lumina APV, Trans Sport, Silhouette, Astro, Safari, Toyota Van, Toyota Minivan, Previa, Nissan Minivan, Quest, Mitsubishi Minivan, Vanagon/Camper.)
- (21) Large van (B150-B350, Sportsman, Royal, Maxiwagon, Ram, Tradesman, Voyager [83 and before], E150-E350, Econoline, Clubwagon, Chateau, G10-G30, Chevy Van, Beauville, Sport Van, G15-G35, Rally Van, Vandura.)
- (22) Step van or walk-in van (≤ 4,500 kgs GVWR)
- (23) Van based motorhome (≤ 4,500 kgs GVWR)
- (24) Van based school bus (≤ 4,500 kgs GVWR)
- (25) Van based other bus (≤ 4,500 kgs GVWR)
- (28) Other van type (Hi-Cube Van, Kary) (specify):
- (29) Unknown van type

Light Conventional Trucks (Pickup style cab, ≤ 4,500 kgs GVWR)

- (30) Compact pickup (D50, Colt P/U, Ram 50, Dakota, Arrow Pickup [foreign], Ranger, Courier, S-10, T-10, LUV, S-15, T-15, Sonoma, Datsun/Nissan Pickup, P'up, Mazda Pickup, Toyota Pickup, Mitsubishi Pickup)
- (31) Large Pickup (Jeep Pickup, Comanche, Ram Pickup, D100-D350, W100-W350, F100-F350, C10-C35, K10-K35, R10-R35, V10-V35, Silverado, Sierra, R100-R500,)

- (32) Pickup with slide-in camper
- (33) Convertible pickup
- (39) Unknown pickup style light conventional truck type

Other Light Trucks (≤ 4,500 kgs GVWR)

- (40) Cab chassis based (includes rescue vehicles, light stake, dump, and tow truck)
- (41) Truck based panel
- (42) Light truck based motorhome (chassis mounted)
- (45) Other light conventional truck type
- (48) Unknown light truck type
- (49) Unknown light vehicle type (automobile, utility, van, or light truck)

OTHER VEHICLES

Buses (Excludes Van Based)

- (50) School bus (designed to carry students, not cross country or transit)
- 58) Other bus type (e.g., transit, intercity, bus based motorhome) (specify):
- (59) Unknown bus type

Medium/Heavy Trucks (> 4,500 kgs GVWR)

- (60) Step van (> 4,500 kgs GVWR)
- (61) Single unit straight truck (4,500 kgs < GVWR ≤ 8,850 kgs)
- (62) Single unit straight truck (8,850 kgs < GVWR ≤ 12,000 kgs)</p>
- (63) Single unit straight truck (> 12,000 kgs GVWR)
- (64) Single unit straight truck, GVWR unknown
- (65) Medium/heavy truck based motorhome
- (67) Truck-tractor with no cargo trailer
- (68) Truck-tractor pulling one trailer
- (69) Truck-tractor pulling two or more trailers
- (70) Truck-tractor (unknown if pulling trailer)
- (78) Unknown medium/heavy truck type
- (79) Unknown truck type (light/medium/heavy)

Motored Cycles (Does Not Include All-Terrain Vehicles/Cycles)

- (80) Motorcycle
- (81) Moped (motorized bicycle)
- (82) Three-wheel motorcycle or moped
- (88) Other motored cycle (minibike, motorscooter)
- (89) Unknown motored cycle type

Other Vehicles

- (90) ATV (All-Terrain Vehicle) and ATC (All-Terrain Cycle)
- (91) Snowmobile
- (92) Farm equipment other than trucks
- (93) Construction equipment other than trucks
- (97) Other vehicle type
- (99) Unknown body type

	OCCUPANT RELATED	iness Da	Page 1 System: General Vehicle Form Page 1
16.	Driver Presence in Vehicle (0) Driver not present (1) Driver present (9) Unknown	1	24. Rollover (0) No rollover (no overturning) **Rollover (primarily about the longitudinal axis) (1) Rollover, 1 quarter turn only
	Number of Occupants This Vehicle (00-96) Code actual number of occupants for this vehicle (97) 97 or more	<u>φ</u> <u> </u>	(2) Rollover, 2 quarter turns(3) Rollover, 3 quarter turns(4) Rollover, 4 or more quarter turns (specify):
	(99) Unknown	φΙ	(5) Rolloverend-over-end (i.e., primarily about the lateral axis)(9) Rollover (overturn), details unknown
	VEHICLE WEIGHT ITEMS		OVERRIDE/UNDERRIDE (THIS VEHICLE)
19.	Vehicle Curb Weight	<u>B</u> 0	
	10 kilograms. (045) Less than 450 kilograms (610) 6,100 kilograms or more		26. Rear Override/Underride (this Vehicle)
	(999) Unknown <u>2,6 φ 9</u> lbs x .4536 = <mark>1, 1 </mark>	s	(0) No override/underride, or not an end-to-end impact
;	Source:		Override (see specific CDC) (1) 1st CDC
0. \ -	Vehicle Cargo Weight,,,,,,	<u></u> 0	(2) 2nd CDC (3) Other not automated CDC (specify):
(10 kilograms. (000) Less than 5 kilograms 450) 4,500 kilograms or more 999) Unknown —		Underride (see specific CDC) (4) 1st CDC (5) 2nd CDC (6) Other not automated CDC (specify):
	RECONSTRUCTION DATA		
((owed Trailing Unit O) No towed unit		(7) Medium/heavy truck or bus override(9) Unknown
(9	1) Yes—towed trailing unit 9) Unknown		HEADING ANGLE AT IMPACT FOR HIGHEST DELTA V
(0	ocumentation of Trajectory Data or This Vehicle)) No) Yes	_1_	Values: (000)-(359) Code actual value (997) Noncollision (998) Impact with object (999) Unknown
(1	ost Collision Condition of Tree or Pole for Highest Delta V))) Not collision (for highest delta V) with	4	27. Heading Angle For This Vehicle
(1 (2 (3 (4 (5) (6)	tree or pole) Not damaged) Cracked/sheared) Tilted <45 degrees) Tilted ≥45 degrees) Uprooted tree) Separated pole from base) Pole replaced) Other (specify):		28. Heading Angle For Other Vehicle/
	Unknown	1	

- 144 - 1 - 144

366

97 98

2345: -

Cate- gory	Configur- ation	ACCIDENT TYPES (Includes Intent)
	A. Right Roadside Departure	DRIVE OFF CONTROL/ AVOID COLLISION SPECIFICS
Single Driver	B. Left	TRACTION LOSS WITH VEH., PED., ANIM. OTHER UNKNOWN
1. Single	Roadside Departure	DRIVE OFF CONTROL/ AVOID COLLISION SPECIFICS SPECIFICS WITH VEH., PED., ANIM. OTHER UNKNOWN
	C Forward Impact	PARKED VEH. STA. OBJECT PEDESTRIAN/ END SPECIFICS SPECIFICS
icway tion	D Rear-End	20 22 24 26 28 30 (EACH • 32) (EACH • 33) STOPPED SLOWER DECEL. 31
II. Sane Trafficway Same Direction	E Forward Impact	CONTROL/ TRACTION LOSS OTHER UNKNOWN 40 III (EACH • 42) (EACH •
	F. Sideswipe Angle	45 45 (EACH · 48) (EACH · 49) SPECIFICS SPECIFICS UNKNOWN 47 OTHER OTHER
ye. Yeliva	G Head-On	50 51 (EACH • 52) (EACH • 53) SPECIFICS OTHER SPECIFICS UNKNOWN
Same Traffick ay Opposite Direction	H Forward Impact	CONTROL/ TRACTION LOSS 56 57 58 60 60 61 GEACH • 621(EACH • 621) AVOID COLLISION AVOID COLLISION SPECIFICS SPECIFICS WITH VEH. WITH OBJECT OTHER LINKNOWN
Ħ	I. Sideswipe [*] Angle	65 (EACH • 66) (EACH • 67) SPECIFICS SPECIFICS UNKNOWN LATERAL MOVE OTHER
Trafficway Turning	J. Turn Across Path	69 71 70 73 72 INITIAL OPPOSITE INITIAL SAME DIRECTIONS SPECIFICS SPECIFICS
IV. Change Vehicle	K. Turn Into Path	77 79 OTHER UNKNOWN 76 81 82 IEACH • 841 IEACH • 85
V Intersecting Paths (Vehicle Damage)	L. Straight Paths	TURN INTO SAME DIRECTION TURN INTO OPPOSITE DIRECTIONS SPECIFICS UNKNOWN BR BB BB BB BB BB BB B
VI. Miscel- lancous	M. Backing Eic.	92 93 CID OTHER VEH. OR OBJECT BACKING VEH. 98 Other Accident Type 99 Unknown Accident Type 00 No Impact

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29. Basis for Total Delta V (highest) Z	Highest +
Delta V Calculated (1) CRASH program—damage only routine (2) CRASH program—damage and trajectory routine (3) Missing vehicle algorithm Delta V Not Calculated (4) At least one vehicle (which may be this vehicle) is beyond the scope of an acceptable reconstruction program, regardless of collision conditions. (5) All vehicles within scope (CDC applicable) of CRASH program but are of the pall;	32. Lateral Component of Delta V
of CRASH program but one of the collision conditions is beyond the scope of the CRASH program or other acceptable reconstruction technique, regardless of adequacy of damage data. (6) All vehicle and collision conditions are within scope of one of the acceptable reconstruction programs, but there is insufficient data available.	Nearest 100 joules (highest) Nearest 100 joules (secondary) (NOTE: 0000 means less than 50 joules) (9997) 999,650 joules or more (9999) Unknown
COMPUTER GENERATED DELTA V Highest 30. Total Delta V 1.0 MPH II.2 Nearest kph (highest) Nearest kph (secondary)	34. Confidence In Reconstruction Program Results (For Highest Delta V) (0) No reconstruction (1) Collision fits model — results appear reasonable (2) Collision fits model — results appear high (3) Collision fits model — results appear low (4) Borderline reconstruction — results appear reasonable
(NOTE: 000 means less than 0.5 kph) (160) 159.5 kph and above (999) Unknown 31. Longitudinal Component of +	35. Type of Vehicle Inspection (0) No inspection (1) Complete inspection (2) Partial inspection (specify):
Delta V	36. Is this an AOPS Vehicle? (0) No (1) Yes - researcher determined (2) VIN determined air bag system (3) VIN determined automatic (passive) belts (4) VIN determined air bag and automatic (passive) belts
IS OLDMISS APPLICABLE FOR TH IF YES: IS A COMPLETED OLDMISS PROGRAM	[] []

90) 91) 91)

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Tational Accident Sampling System-Crashworthiness Date	a System: General Vehicle Form	Page
37. Police Reported Other Drug Presence (0) No other drug(s) present (1) Yes [other drug(s) present] (7) Not reported (8) No driver present (9) Unknown 38. Police Reported Drug Evaluation Classification (DEC) Test For Driver (0) No DEC process available or given (1) DEC process given, results known (2) DEC process given, results unknown (3) DEC process available, unknown if given (8) No driver present 39. Other Drug Specimen Test Type For Driver (0) No specimen test given (1) Blood test (2) Urine test	DRUG EVALUATION CLASSIFIC OTHER DRUGS TEST RESULTS FOR DEC Test Results Narcotic Drug 40. \$\phi\$ Depressant Drug 42. \$\phi\$ Stimulant Drug 44. \$\phi\$ Hallucinogen Drug 46. \$\phi\$ Cannabinoid Drug 48. \$\phi\$ Phencyclidine (PCP) 50. \$\phi\$ Inhalant Drug 52. \$\phi\$ Other Drug (Excluding 54. \$\phi\$ Nicotine, Aspirin, Alcohol, Drugs Administered Post-Crash) Codes For DEC Test Results (0) No DEC test given (1) Passed DEC test (2) Failed DEC test (3) DEC test given—results unknown	Page CATION ORIVER Specimen Test Results 41.
(3) Other specimen tests (specify): (7) Unspecified specimen test (8) No driver present (9) Unknown if specimen test given	(8) No driver present (9) Unknown if DEC test given Codes for Specimen Test Results (0) No specimen test given (1) Drug not found in specimen (2) Drug found in specimen (7) Specimen test given, results unknown not obtained (8) No driver present (9) Unknown if specimen test given	n or

CODES FOR ROLLOVER INITIATION OBJECT CONTACTED

(00) No rollover (01-30) — Vehicle Number	(57) Fence (58) Wall
Noncollision	(59) Building
(31) Turn-over — fall-over	(60) Ditch or culvert
(33) Jackknife	(61) Ground
	(62) Fire hydrant
Collision With Fixed Object	(63) Curb
//1) Troo / 10 on in diameter	(64) Bridge
(41) Tree (≤ 10 cm in diameter)(42) Tree (> 10 cm in diameter)	(68) Other fixed object (specify):
(43) Shrubbery or bush	
(44) Embankment	(69) Unknown fixed object
(44) Embankment	
(AE) Proplement and a second second	Collision with Nonfixed Object
(45) Breakaway pole or post (any diameter)	(71) Motor vehicle not in-transport
Markard -	(76) Animal
Nonbreakaway Pole or Post	(77) Train
(50) Pole or post (≤ 10 cm in diameter)	(78) Trailer, disconnected in transport
(51) Pole or post (> 10 cm but \leq 30 cm in	(79) Object fell from vehicle in-transport
diameter)	(88) Other nonfixed object (specify):
(52) Pole or post (> 30 cm in diameter)	(specify).
(53) Pole or post (diameter unknown)	(89) Unknown nonfixed object
	1007 Onknown homixed object
(54) Concrete traffic barrier	1981 Other quant languist.
(55) Impact attenuator	(98) Other event (specify):
(56) Other traffic barrier (includes guardrail) (specify):	(99) Unknown event or object
(apacity)	·

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(9) Unknown

OTHER DATE	ata System: General Vehicle Form Page !
OTHER DATA	61. Rollover Initiation Object Contacted 4 4
66. Driver's Zip Code (00000) Driver not present (00001) Driver not a resident of U.S. or territories Code actual 5-digit zip code (99999) Unknown 57. Driver's Race/Ethnic Origin (0) Driver not present (1) White (non-Hispanic) (2) Black (non-Hispanic) (3) White (Hispanic) (4) Black (Hispanic) (5) American Indian, Eskimo or Aleut (6) Asian or Pacific Islander (8) Other (specify):	(0) No rollover (1) Wheels/tires (2) Side plane (3) End plane (4) Undercarriage (5) Other location on vehicle (specify): (8) Non-contact rollover forces (specify): (9) Unknown
(9) Unknown	63. Direction of Initial Roll
58. Vehicle Special Use (This Trip) (0) No special use (1) Taxi (2) Vehicle used as school bus (3) Vehicle used as other bus (4) Military (5) Police (6) Ambulance	 (0) No rollover (1) Roll right - primarily about the longitudinal axis (2) Roll left - primarily about the longitudinal axis (5) End-over-end (i.e., primarily about the lateral axis) (9) Unknown roll direction
(7) Fire truck or car	PRECRASH DATA
(8) Other (specify):	C4 D 5
	64. Pre-Event Movement (Prior to Recognition of Critical Event)
If GV07 (Body Type) ≠ 1-49, leave GV59-GV63 blank. If GV24 (Rollover) = 0, then GV59-GV63 must equal 0. If GV24 = 9, then GV59-GV63 must equal 9. 59. Rollover Initiation Type (0) No rollover (1) Trip-over (2) Flip-over (3) Turn-over (4) Climb-over (5) Fall-over (6) Bounce-over (7) Collision with another vehicle (8) Other rollover initiation type specify): (9) Unknown rollover initiation type	(01) Going straight (02) Slowing or stopping in traffic lane (03) Starting in traffic lane (04) Stopped in traffic lane (05) Passing or overtaking another vehicle (06) Disabled or parked in travel lane (07) Leaving a parking position (08) Entering a parking position (09) Turning right (10) Turning left (11) Making a U-turn (12) Backing up (other than for parking position) (13) Negotiating a curve (14) Changing lanes (15) Merging (16) Successful avoidance maneuver to a previous critical event (97) Other (specify):
(0) No rollover (1) On roadway (2) On shoulder—paved (3) On shoulder—unpaved (4) On roadside or divided trafficway median	(98) No driver present (99) Unknown

PRECRASH D.	ATA (Continued)
65. Critical Precrash Event	Padastrian or Padalovalist as Otto M
-	Pedestrian or Pedalcyclist, or Other Nonmotorist
This Vehicle Loss of Control Due To:	(80) Pedestrian in roadway
(01) Blow out or flat tire	(81) Pedestrian approaching roadway
(02) Stalled engine	(82) Pedestrian—unknown location
(03) Disabling vehicle failure (e.g., wheel fell off)	(83) Pedalcyclist or other nonmotorist in roadway
(specify):	(specify):
(04) Non-disabling vehicle problem (e.g., hood flew	(84) Pedalcyclist or other nonmotorist approaching
up) (specify):	roadway (specify):
(05) Poor road conditions (puddle, pot hole, ice, etc.)	(85) Pedalcyclist or other nonmotorist—unknown
(Specify):	location (specify):
(06) Traveling too fast for conditions	Object or Animal
(08) Other cause of control loss (specify):	(87) Animal in roadway
Į	1881 Animal approaching and a
(09) Unknown cause of control loss	(88) Animal approaching roadway (89) Animal—unknown location
	(90) Object in roadway
This Vehicle Traveling	(91) Object approaching roadway
(10) Over the lane line on left side of travel lane	(92) Object—unknown location
(11) Over the lane line on right side of travel lane	1027 Object—unknown location
(12) Off the edge of the road on the left side	1981 Other critical process house (as a cir.)
(13) Off the edge of the road on the right side	(98) Other critical precrash event (specify):
(14) End departure	(99) Unknown
(15) Turning left at intersection	1007 OHKHOWH
(16) Turning right at intersection	
(17) Crossing over (passing through) intersection	For Corrective Actions Assessment
(19) Unknown travel direction	For Corrective Actions Attempted see variable GV14
	(Attemped Avoidance Manuever)
Other Motor Vehicle In Lane	
(50) Stopped	66 Broand Ct 199, Ar
(51) Traveling in same direction with lower speed	66. Precrash Stability After Avoidance Maneuver
(i.e., lower steady speed or deceleration)	(O) No avoidance maneuver
(52) Traveling in same direction with higher speed	(1) Tracking
(53) Traveling in opposite direction	(2) Skidding longitudinally—rotation less than 30
(54) In crossover	degrees
(55) Backing	(3) Skidding laterally—clockwise rotation
(59) Unknown travel direction of other motor vehicle	(4) Skidding laterally—counterclockwise rotation
in lane	(7) Other vehicle loss-of-control (specify):
Other Mark Mark Brown	
Other Motor Vehicle Encroaching Into Lane	(8) No driver present
(60) From adjacent lane (same direction)—over left	(9) Precrash stability unknown
lane line	diministry diministry
(61) From adjacent lane (same direction)—over right	
lane line	67. Precrash Directional Consequences of
(62) From opposite direction—over left lane line	Avoidance Maneuver (Corrective Action)
(63) From opposite direction—over right lane line (64) From parking lane	(0) No avoidance maneuver
(65) From parking lane	
(65) From crossing street, turning into same direction	(1) Vehicle stayed in travel lane where avoidance
	maneuver was initiated
(66) From crossing street, across path	(2) Vehicle stayed on roadway but left travel lane
(67) From crossing street, turning into opposite direction	where avoidance maneuver was initiated
	(3) Vehicle stayed on roadway, not known if left
(68) From crossing street, intended path not known (70) From driveway, turning into same direction	travel lane where avoidance maneuver was
(71) From driveway, across path	initiated
(72) From driveway, across path (72) From driveway, turning into opposite direction	(4) Vehicle departed roadway
(73) From driveway, turning into opposite direction (73) From driveway, intended path not known	(5) Avoidance maneuver initiated off roadway
(74) From entrance to limited access highway	(8) No driver present
(78) Encroachment by other vehicle—details	(9) Directional consequences unknown
unknown	
*** IF THE CDS APPLICABLE VEHICLE WA	AS NOT INSPECTED (I.E., GV35=0) ***

THE CDS APPLICABLE VEHICLE WAS NOT INSPECTED (I.E., GV35 = 0), ***
DO NOT COMPLETE THE EXTERIOR AND INTERIOR VEHICLE FORMS.

*** IF GV07 DOES NOT EQUAL 01-49, DO NOT COMPLETE ***
THE EXTERIOR VEHICLE, INTERIOR VEHICLE,
OCCUPANT ASSESSMENT, AND OCCUPANT INJURY FORMS.

lational Hig	hway Traffic Safe	•					_					
dministrati	on			EXTERIO	R VE	HICLE	FOR	M NAT	IONAL A	CCIDENT WORTHII	SAMPLI NESS DA	NG SYST
1. Prim	nary Sampling	Unit 1	Number			3. Veh	icle Nur	nber				\$ 1
2. Case	e Number - Si	tratum		ABZ	2							
				VEHICL	E IDEN	TIFICA	TION					
/IN 1	6 1 1	- T	5 3									
····	<u> </u>		<u> </u>				*-	(*	Mode	l Year _	92
enicle N	Make (specify):	:	HEVROLE	T		Vehic	le Mode	l (specif	y):	CORSIG	<u> </u>	
					LOCAT							
ocate the ran und	ne end of the damaged axle	damag for sid	e with resp de impacts.	ect to the v	ehicle lo	ngitudir	al cente	er line o	bumpe	er corner	for end	impact
Specific	Impact No.		Locatio	n of Direct	Damage				Locatio	n of Field	d L	
	1	LF	P. 1.4.00.0									
	•	CF	BUMPER	CORNER				<u> </u>				
			CPI	JSH PROF	-11 = 101	054						
; 1	Measure and Measure C1 t Free space va the individual side taper, etc Use as many	to C6 f llue is C loca c. Rec	rom driver to defined as to tions. This ord the value	to passenge the distance may includue ue for each	er side in betwee le the fo C-measi	front on the ballowing: urement	r rear in aseline a bumpe and ma	npacts a and the r lead, t eximum	original oumper crush.			
pecitic	Plane of Im		Direct I	Damage	1	Je each	oamage T	profile.		Т		т
mpact umber	C-Measuren	nents	Width (CDC)	Max Crush	Field L	C ₁	C ₂	C3	C ₄	C₅	C ₆	±D
1	BUMPER		52.7	9.6	-10	0.						
	-FREE SPA	ICE	32.7	-4.6	51.5	9.6	5.1 -1.75	3./	2.4	2.75	5.3	
				5.6		5.6	3.35	2.9	2 2.2	-1.75	-4.p	
							فرو ال	2.7	2. 2	1. φ	1.3	ø
1	BUMPER		134		15:							
	Dink		1 7 4	14	131	14	9	7	6	3	3	K

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VEHICLE DAMAGE SKETCH

TIRE—WHEEL DAMAGE a. Rotation physically b. Tire restricted deflated

	_
RF	2
LF `	2
RR	Z
LR]	Z
	RR

(1) Yes (2) No (8) NA (9) Unk.

TYPE OF TRANSMISSION

☐ Manual ☐ Automatic

ORIGINAL SPECIFICATIONS

Wheelbase (103.5)	263	cm
Overall Length (183.5)	466	cm
Maximum Width (6%パ)	173	cm
Curb Weight (2609)	1186	kg
Average Track		cm
Front Overhang (37.8)	96	cm
Rear Overhang (40.9)	194	cm
Undeformed End Width	53) 135	cm
Engine Size: cyl./displ.	3.1	1

WHEEL STEER ANGLES (For locked front wheels or displaced rear axles only)

RF ± + 2-3 0 LF ± +2-3 0 RR ± 0 LR ± 0 Within ± 5 degrees

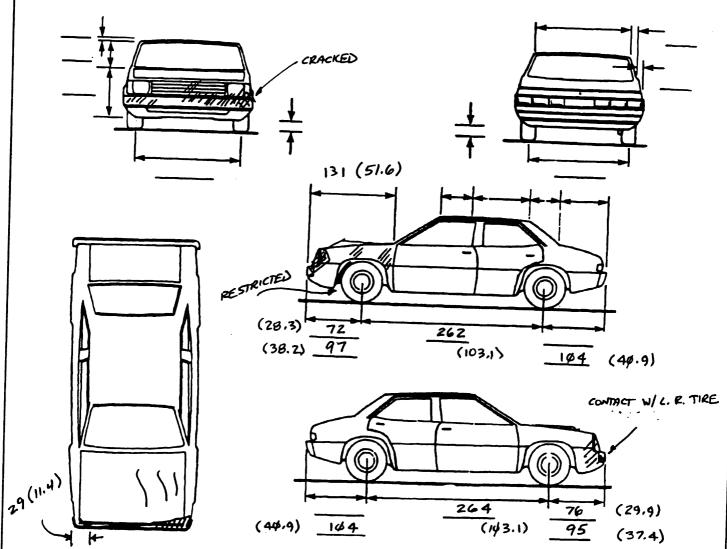
DRIVE WHEELS

EFWD □ RWD □ 4WD

Approximate None Cargo Weight VISIBLE kg

ABS

MEASUREMENTS IN CENTIMETERS



NOTES:

Sketch new perimeter and cross hatch direct damage and single hatch induced damage on all views. Annotate observations which might be useful in reconstructing the accident (e.g., grass in tire bead, direction of striations, scuff on sidewalls, etc.). If pulling trailer, sketch type of trailer and damage received on the back of this page.

Annotate any damage caused by extrication such as component removal by torching, prying, or hydraulic shears.

स्तः १ | | |सुन्धः

##: |##: | (1)

		oling System-Cr		WORKS					Pa
				R OBJECT ()		
(01-30) -	Vehicle N	lumber							
(0.00)	, o	varribe:				Fence			
Noncollisio					(58) (50)				
(31) O	verturn —	rollover			(60)	Buildir	ng or culvert		
(32) Fi	re or explo	sion			(61)	Groun	o caivert		
(33) Ja						Fire hy			
(34) 0	tner intrau	nit damage (spe	cify):		(63)	Curb			
(35) N	oncollision	inium			(64)	Bridge			
(38) 01	ther nonco	llision (specify):			(68)	Other	fixed object	(specify):	
					(69)	Unkno	wn fixed ob	iona	
(39) No	oncollision	- details unkn	own						
Collision W	ith Fixed (Ohiect		Co	llision	with I	Nonfixed Ob	ject	
(41) Tr	ee (< 10 a	object om in diameter)			(71)	Motor	vehicle not	in-transport	
(42) Tr	ee (> 10 d	om in diameter)				Pedest			
(43) Sh	rubbery or	bush		l l	(73) (Cyclist	or cycle		
(44) Em	bankment	:		'	(/4)	Other I	nonmotorist	or conveya	nce
(45) Br	ankawawa m	ala a		((75) ³	Vehicle	occupant		
(40) 616	akaway p	ole or post (any	diameter)		(76) 1	Animal	•		
Nonbreaka	way Pole c	or Post			(77)				
(50) Pol	e or post	(≤ 10 cm in dia	meterl	((78) T	Trailer,	disconnect	ed in transp	ort
(51) Pol	e or post	(> 10 cm but ≤	≤ 30 cm in		(79) (Ject Jeber –	fell from ve	hicle in-tran	sport
dia	meter)			,	00) (Julern	onfixed obj	ect (specify)):
(52) Pol	e or post (> 30 cm in dia	meter)	(89) โ	Jnknov	vn nonfixed	Ohiect	
(53) Pol	e or post (diameter unkno	wn)						
(54) Co	ncrete traff	fic barrier		(:	98) C	Other e	vent (specif	y):	
(55) lmp	act attenu	ator		10	aas T	lakası			
(56) Oth	er traffic b	parrier (includes	guardrail)	,,	<i>33</i> 7 C	IIKIIOW	n event or	object	
(sp	ecify):								
		25505111							
		DEFORMA	TION CLASS	SIFICATION	BY EV	/ENT N	IUMBER		
Accident		(4) (0)			(4)	(5)		
Event		(1) (2) Direction	Incremental		Spe	ecific	Specific	(6)	
Sequence	Object	of Force	Value of	(3) Deformation		tudinal ateral	Vertical or	Type of	(7)
Number (Contacted	(degrees)	Shift	Location		ation	Lateral Location	Damage Distribution	Deformation Extent
d 1	φ ₂	φ 1 ψ	d. d.		*				EXTENT
		<u> </u>	<u> </u>	<u> </u>	_	<u>D</u>	E	<u>w</u>	ϕ 1
									
									

		COLLISIO	N DEFORMA		SIFICATIO		Page
HIGHEST	DELTA "V"						
Accident Event Sequence Number	Object Contacted	(1) (2) Direction of Force	(3) Deformation Location	Location	(5) Vertical or Lateral Location	(6) Type of Damage Distribution	(7) Deformation Extent
4. <u>d</u> 1	5. <u>φ</u> 2	6. 1 Z	7. <u>F</u>	8. <u>D</u>	9. <u>E</u>	10. <u> </u>	11. <u></u>
Second Hig	ghest Delta "V	y 11					
12	13	14	15	16	17	18	19
		CRUS	SH PROFILE	IN CENTIM	ETERS		
•	The crush pro- in the appr	file for the da	mage described below. (ALL M	in the CDC(s)	above should b	pe documented TIMETERS.)	i
HIGHEST D	ELTA "V"						
20. L	21. 			C ₄	C ₅ (2.
135	<u> </u>	409	<u> </u>	<u> </u>	<u> 43 </u>	<u> 3</u>	<u> </u>
Second High	hest Delta "V"	,					
23. 	24. 			C ₄	C ₅ C	25 6	5.
						<u>_</u>	
26. Are CDCs but Not Co Automated (0) No (1) Yes	ded on The	φ (0)	esearcher's Assest Vehicle Disposition of towed due vehicle damage Towed due to vehicle damage Unknown	to 1	near	Vheelbase ode to the rest centimeter nown	263
				103.5	_ inches X 2.54 •	<u> 2 63</u> cen	timeters

1			
29. Is This A Multi-Stage Manufactured Vehicle And/Or A Certified Altered Vehicle?	<u> </u>	34. Fuel Tank-1 Location	1
(0) No post manufacturer modifications		35. Fuel Tank-2 Location	đ
(1) Yes - post manufacturer modifications (specify):		(0) No fuel tank	
(specify).	_ _	(1) Aft of center of the rear wheels (rear axle) centered	
(Include photograph of CERTIFICATION	-	(2) Aft of center of the rear wheels (rear axle) side	lef
PLACARD in case report)		(3) Aft of center of the rear wheels (rear axle)	
(9) Unknown if vehicle is modified		right side	
		(4) Forward of center of the rear wheels (rear axle) centered	
30. Fire Occurrence (0) No fire	4	(5) Forward of center of the rear wheels (rear	
(O) NO life		axle) left side	
Yes, fire occurred		(6) Forward of center of the rear wheels (rear axle) right side	
(1) Minor		(7) Over center of the rear wheels (rear axle)	
(2) Major (9) Unknown		(8) Other (specify):	
		(9) Unknown	
31. Origin of Fire	¢		
(O) No fire		36. Fuel Tank-1 Filler Cap Location	3
(1) Vehicle exterior (front, side, back, top)(2) Exhaust system		_	
(3) Fuel tank (and other fuel retention		37. Fuel Tank-2 Filler Cap Location (0) No fuel tank	ø
system parts)		(1) On back plane	
(4) Engine compartment		(2) Aft of center of the rear wheels (rear axle) of	n
(5) Cargo/trunk compartment(6) Instrument panel		left side plane	
(7) Passenger compartment area		(3) Aft of center of the rear wheels (rear axle) or right side plane	n
(8) Other location (specify):		(4) Forward of center of the rear wheels (rear	
(9) Unknown		axle) on left side plane	
		(5) Forward of center of the rear wheels (rear axle) on right side plane	
32. Type of Fuel Tank-1	,	(6) Over the center of the rear wheels (rear axle))
oz. Type of Fuel Paris-1		on left side plane	
33. Type of Fuel Tank-2	_\$_	(7) Over the center of the rear wheels (rear axle) on right side plane)
(0) No fuel tank (electrical vehicle) (1) Metallic		(8) Other (specify):	
(2) Non-metallic		(9) Unknown	
(9) Unknown			
		38. Fuel Tank-1 Damage	l
	:	39. Fuel Tank-2 Damage	— /.
		(0) No fuel tank	_
		(1) No damage to fuel tank	
		(2) Deformed, no seam failure(3) Deformed, with a seam failure	
		(4) Punctured	
		(5) Lacerated (ripped)	
	İ	(6) Abraded (scraped)	
		(7) Filler neck separation from the fuel tank(8) Other damage (specify):	
		(9) Unknown	

13.5 1933 124

41.			44. Is This Vehicle Equipped With More Than
₽1.	Laurian of E. Lo.		44. Is This Vehicle Equipped With More Than Two Fuel Tanks?
	Location of Fuel System-2 Leakage	_4	
	(0) No fuel tank	·	to the control talks of the
	(1) No fuel leakage		Yes - More Than Two Tanks
			(1) Yes no damage to any tank or filler
	Primary Area Of Leakage		cap and <u>no fuel system leakage</u>
	(2) Tank		(2) Yes no damage to any tank or filler
	(3) Filler neck		cap but there is fuel system leakage
	(4) Cap		(specify leakage location):
	(5) Lines/pump/filter		(opcony leakage location):
	(6) Vent/emission recovery		(3) Yes damage to an additional tank or
	(8) Other (specify):		filler can and those is find some
			filler cap and there is fuel system leakage (specify the following):
	(9) Unknown		Type of tank
			Type of tank
2.	Fuel Type-1	41	Tank damage
	·		I I I I I I I I I I I I I I I I I I I
3.	Fuel Type-2	44	Location of leakage
			Type of fuel
	Single Fuel Type	}	107 Onknown if more than two tanks
	(00) No fuel tank		
	(01) Gasoline	Γ	
	(02) Diesel	j	COMMENTS
	(03) CNG (Compressed Natural Gas)	i	COMMEM 12
	(04) LPG (Liquid Petroleum Gas) also	l	
	known as Propane		
	(05) LNG (Liquid Natural Gas)	1	
	(06) Methanol (M100 or M85)	i	
1	(07) Ethanol (E100 or E85)		
((08) Other (Hydrogen or others) (specify):		
1	Electric Powered or Electric/Solar Powered Vehicles	1	
		j	
	10) Lead Acid Battery		
	11) Nickel-Iron Battery		
,	12) Nickel-Cadmium Battery		
,	13) Sodium Metal Chloride Battery	į.	
	14) Sodium Sulfur Battery	į	
	18) Other (Specify):		
(:	98) Other Hybrid (specify):		
(!	99) Unknown fuel type		
	-775-		
* *	STOP IF THE ODG ADDITION		
(F GV09 - 0 OP 9 AND GV09	HICLE WA	AS NOT TOWED AND WAS NOT AN AOPS *** COMPLETE THE INTERIOR VEHICLE FORM.

THE REPORT OF THE PROPERTY OF

National Highway Traffic Safety Administration

INTERIOR VEHICLE FORM NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

1.	Primary	Sampling	Unit	Number
----	----------------	----------	------	--------

2. Case Number - Stratum

ABZZ

3. Vehicle Number

Ф

INTEGRITY

4. Passenger Compartment Integrity (00) No integrity loss

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Yes, Integrity Was Lost Through

- (01) Windshield
- (02) Door (side)
- (03) Door/hatch (back door)
- (04) Roof
- (05) Roof glass
- (06) Side window
- (07) Rear window (backlight)
- (08) Roof and roof glass
- (09) Windshield and door (side)
- (10) Windshield and roof
- (11) Side and rear window (side window and backlight)
- (12) Windshield and side window
- (13) Door and side window
- (98) Other combination of above (specify):
- (99) Unknown

Door, Tailgate or Hatch Opening

5. LF 1 6. RF 1 7. LR 1 8. RR 1 9. TG/H 4

- (0) No door/gate/hatch
- (1) Door/gate/hatch remained closed and operational
- (2) Door/gate/hatch came open during collision
- (3) Door/gate/hatch jammed shut
- (8) Other (specify):
- (9) Unknown

Damage/Failure Associated with Door, Tailgate or Hatch Opening in Collision. If IV05-IV09 ≠ 2, Then code Ø

10. LF <u>Φ</u> 11. RF <u>Φ</u> 12. LR <u>Φ</u> 13. RR <u>Φ</u> 14. TG/H <u>Φ</u>

(0) No door/gate/hatch or door not opened

Door, Tailgate or Hatch Came Open During Collision

- (1) Door operational (no damage)
- (2) Latch/striker failure due to damage
- (3) Hinge failure due to damage
- (4) Door structure failure due to damage
- (5) Door support (i.e., pillar, sill, roof side rail, etc.) failure due to damage
- (6) Latch/striker and hinge failure due to damage
- (8) Other failure (specify):
- (9) Unknown

GLAZING

Glazing Damage from Impact Forces

15. WS <u>4</u> 16. LF <u>4</u> 17. RF <u>4</u> 18. LR <u>4</u> 19. RR <u>4</u>

20. BL <u>4</u> 21. Roof <u>β</u> 22. Other <u>4</u>

- (0) No glazing damage from impact forces
- (2) Glazing in place and cracked from impact forces
- (3) Glazing in place and holed from impact forces
- (4) Glazing out-of-place (cracked or not) and not holed from impact forces
- (5) Glazing out-of-place and holed from impact forces .
- (6) Glazing disintegrated from impact forces
- (7) Glazing removed prior to accident
- (8) No glazing
- (9) Unknown if damaged

Glazing Damage from Occupant Contact

23. WS <u>\$\phi\$</u> 24. LF <u>\$\phi\$</u> 25. RF <u>\$\phi\$</u> 26. LR <u>\$\phi\$\$</u> 27. RR <u>\$\phi\$\$</u>

28. BL <u>#</u> 29. Roof <u>#</u> 30. Other #

- (0) No occupant contact to glazing or no glazing
- (1) Glazing contacted by occupant but no glazing damage
- (2) Glazing in place and cracked by occupant contact
- (3) Glazing in place and holed by occupant contact
- (4) Glazing out-of-place (cracked or not) by occupant contact and not holed by occupant contact
- (5) Glazing out-of-place by occupant contact and holed by occupant contact
- (6) Glazing disintegrated by occupant contact
- (9) Unknown if contacted by occupant

If No Glazing Damage And No Occupant Contact or No Glazing, Then Code IV31 Through IV46 As Ø

Type of Window/Windshield Glazing

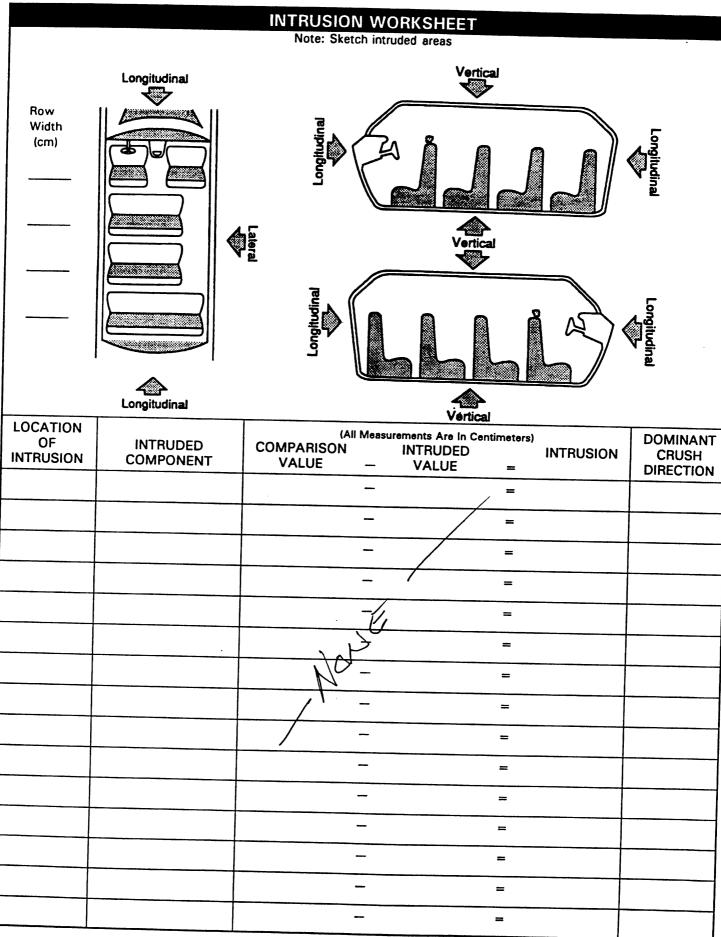
- 31. WS<u>\$\phi\$</u> 32. LF<u>\$\phi\$</u> 33. RF<u>\$\phi\$</u> 34. LR<u>\$\phi\$</u> 35. RR<u>\$\phi\$</u>
- 36. BL 4 37. Roof 4 38. Other 4
 - (O) No glazing contact and no damage, or no glazing
 - (1) AS-1 Laminated
 - (2) AS-2 Tempered
 - (3) AS-3 Tempered-tinted
 - (4) AS-14 Glass/Plastic
 - (8) Other (specify):
 - (9) Unknown

Window Precrash Glazing Status

39. WS 4 40. LF 4 41. RF 4 42. LR 4 43. RR 4

44. BL 4 45. Roof 4 46. Other 4

- (0) No glazing contact and no damage, or no glazing
- (1) Fixed
- (2) Closed
- (3) Partially opened
- (4) Fully opened
- (9) Unknown



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OCCUPANT AREA INTRUSION Note: If no intrusions, leave variables IV47-IV86 blank. INTRUDING COMPONENT **Dominant** Interior Components Location of Intruding Magnitude Crush (01) Steering assembly Intrusion Component of Intrusion Direction (02) Instrument panel left (03) Instrument panel center (04) Instrument panel right 1st 47.___ 48.___ 49. 50. (05) Toe pan (06) A (A1/A2)-pillar (07) B-pillar (08) C-pillar 2nd 51.____ 52. **53**. (09) D-pillar (10) Door panel (side) (12) Roof (or convertible top) (13) Roof side rail 56. **57.** (14) Windshield (15) Windshield header (16) Window frame (17) Floor pan (includes sill) 60. 61._ (18) Backlight header (19) Front seat back (20) Second seat back (21) Third seat back 64. 65. (22) Fourth seat back (23) Fifth seat back (24) Seat cushion (25) Back door/panel (e.g., tailgate) 68. 69. 70. (26) Other interior component (specify): (27) Side panel - forward of the A (A2)-pillar 72.___ 73.___ 74.__ 7th 71. (28) Side panel - rear of the A (A2)-pillar Exterior Components (30) Hood 8th 75. ___ 76.___ 77.___ 78.___ (31) Outside surface of this vehicle (specify): (32) Other exterior object in the environment (specify): 80.____ 81.___ 82.___ 9th 79. (33) Unknown exterior object (97) Catastrophic (98) Intrusion of unlisted component(s) (specify): 10th 83.___ 84.___ 85.___ 86.___ (99) Unknown LOCATION OF INTRUSION **MAGNITUDE OF INTRUSION** (1) \geq 3 centimeters but < 8 centimeters Front Seat Fourth Seat (2) \geq 8 centimeters but < 15 centimeters (11) Left (41) Left (12) Middle (3) ≥ 15 centimeters but < 30 centimeters (42) Middle (4) ≥ 30 centimeters but < 46 centimeters (13) Right (43) Right (5) ≥ 46 centimeters but < 61 centimeters (6) ≥ 61 centimeters Second Seat (97) Catastrophic (7) Catastrophic (21) Left (98) Other enclosed (22) Middle (9) Unknown area (specify) (23) Right (99) Unknown Third Seat **DOMINANT CRUSH DIRECTION** (31) Left (1) Vertical (32) Middle (2) Longitudinal (33) Right (3) Lateral

(7) Catastrophic (9) Unknown

S.	TEERIN	G RIM/SPOKE DEFO	RMATIC	ON	
		i Measurements Are in Centimet			
COMPARISON VALUE	_	DAMAGE VALUE	=	DEFORMATION	
	_	, /	=		
D	-	0	=	b	
Ţ	_	7	=		
	_		=		
		·			

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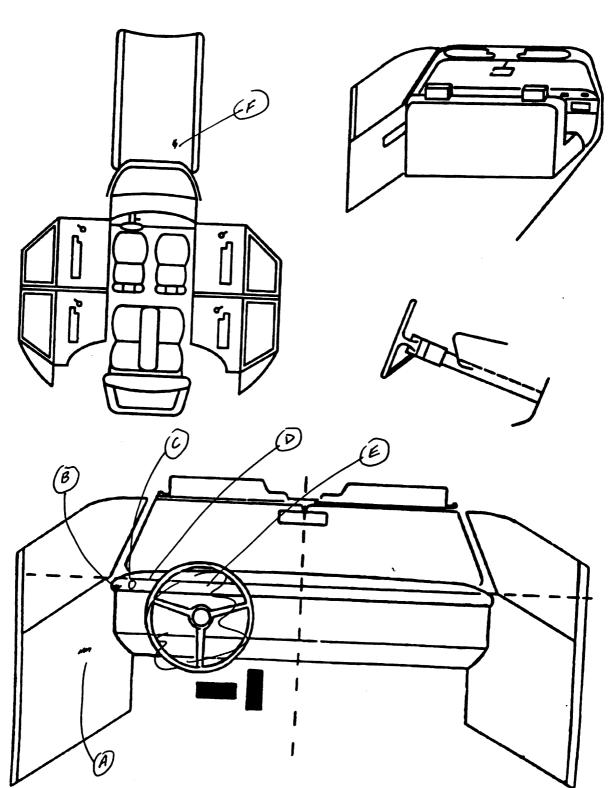
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STEERING COLUMN			raye
87. Steering Column Type	2	93. Location of Steering Rim/Spoke Deformation	4 \$
(1) Fixed column		•	
(2) Tilt column		Quarter Sections	$\wedge^{\wedge} \wedge$
(3) Telescoping column		(01) Section A	$(D \times B)$
(4) Tilt and telescoping column		(02) Section B	$\bigvee_{c}\bigvee$
(8) Other column type (specify):		(03) Section C	
		(04) Section D	
(9) Unknown		Uolf Const	Upper L R
		Half Sections	\ Lower /\ { } /
		(05) Upper half of rim/spoke	
		(06) Lower half of rim/spoke	
		(07) Left half of rim/spoke	
		(08) Right half of rim/spoke	
88. Blank	v v	(09) Complete exercises 1 1 1	
(This variable is left blank	<u> </u>	(09) Complete steering wheel colla (10) Undetermined location	pse
so that numbering consistency		(99) Unknown	
can be maintained with the		(00) Chikhowij	
1988-94 CDS.			
89. Blank	<u> </u>		
(This variable is left blank	<u> </u>	INCTOLINGENT DANK	
so that numbering consistency		INSTRUMENT PANE	L
can be maintained with the		94 Odometer Bradie	
1988-94 CDS.		94. Odometer Reading	<u>/</u>
		kilometera Cada sa s	
		kilometers—Code to the nearest 1,000 kilometers	
		(000) No odometer	
90. Blank	<u> </u>	(001) Less than 1,500 kilometers	
I tinis variable is left blank		(500) 499,500 kilometers or more	
so that numbering consistency		(999) Unknown	
can be maintained with the		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
1988-94 CDS.			
		$ \oint \oint \frac{9}{9} \cdot \frac{6}{8} \cdot \frac{8}{1} \text{ miles } \times 1.6093 = \oint \frac{1}{5}. $	9 6 1 43
			with the state of the stat
04 51 .		Source: VEH. INSPECTION	Ī
91. Blank	<u> </u>		
I triis variable is left blank		05.4	
so that numbering consistency	· .	95. Instrument Panel Damage from	. 1
can be maintained with the	j	Occupant Contact?	1 1
1988-94 CDS.	I	(0) No	
	1	(1) Yes	
		(9) Unknown	1
92 Steering Bim/Carla D. r.			
92. Steering Rim/Spoke Deformation	1 4	96. Knee Bolsters Deformed from	
Code actual measured		Occupant Contact?	d l
deformation to the nearest centimeter		(O) No	<u> </u>
(00) No steering rim deformation	j	(1) Yes	
(01-14) Actual measured value in centimete (15) 15 centimeters or more	rs	(8) Not present	
(98) Observed deformation cannot be meas		(9) Unknown	
(99) Unknown	ured	12, 2,	
	j		
	1	97. Did Glove Compartment Door Open	
		During Collision(s)?	d
		(0) No	
	1	(1) Yes	
	İ	(8) Not present	1
		(9) Unknown	
	i		
	ı		1

VEHICLE INTERIOR SKETCHES

Note area of ejection/entrapment



Sketch windshield contact(s) and the damaged area(s) on the instrument panel outline (e.g., radio, glove compartment, damage to instrument panel structure.

Cross hatch contact points, draw spider webs or use other annotation as may be appropriate.

Annotate the contacted area with a letter (begin with A) and list on the Points of Occupant Contact page.

		POIN	ITS OF OC	CUPANT CONTACT	rage
Contact	Interior Component Contacted	Occupant No. If Known	Body Region If Known	Supporting Physical Evidence	Confidence Level of Contact Point
A	21	41	-	SCUFF	3
В	49	41	L. HAND?	scuff	3
С	49	41	L. HAND ?	SWITCH OFF	3
D	49	41	_	SPEEDONN TER CRICKED/ENTIRE PANEL SHIFTED	2
E	45	41	FACE	LIPSTICK	
F	54	41?	_	SMALL SCUPF	1
G				2007	3
Н					
1					
J					
K					
L					
М					
N					

CODES FOR INTERIOR COMPONENTS

FRONT

- (01) Windshield
- (02) Mirror
- (03) Sunvisor
- (04) Steering wheel rim
- (05) Steering wheel hub/spoke
- (06) Steering wheel (combination of codes 04 and 05)
- (07) Steering column, transmission selector lever, other attachment
- (08) Add on equipment (e.g., CB, tape deck, air conditioner)
- (09) Left instrument panel and below
- (10) Center instrument panel and below
- (11) Right instrument panel and below
- (12) Glove compartment door
- (13) Knee bolster
- (14) Windshield including one or more of the following: front header, A (A1/A2)-pillar, instrument panel, mirror, or steering assembly (driver side only)
- (15) Windshield including one or more of the following: front header, A (A1/A2)-pillar, instrument panel, or mirror (passenger side only)
- (16) Driver side air bag compartment cover
- (17) Passenger side air bag compartment cover
- (18) Windshield reinforced by exterior object (specify):
- (19) Other front object (specify):

LEFT SIDE

- (20) Left side interior surface, excluding hardware or armrests
- (21) Left side hardware or armrest
- (22) Left A (A1/A2)-pillar

- (23) Left B-pillar
- (24) Other left pillar (specify):
- (25) Left side window glass or frame
- (26) Left side window glass including one or more of the following: frame, window sill, A (A1/A2)-pillar, B-pillar, or roof side rail.
- (27) Other left side object (specify):
- (28) Left side window sill

RIGHT SIDE

- (30) Right side interior surface, excluding hardware or armrests
- (31) Right side hardware or armrest
- (32) Right A (A1/A2)-pillar
- (33) Right B-pillar
- (34) Other right pillar (specify):
- (35) Right side window glass or frame
- (36) Right side window glass including one or more of the following: frame, window sill, A (A1/A2)-pillar, B pillar, or roof side rail.
- (37) Other right side object (specify):
- (38) Right side window sill

INTERIOR

- (40) Seat, back support
- (41) Belt restraint webbing/buckle
- (42) Belt restraint B-pillar attachment point
- (43) Other restraint system component (specify):
- (44) Head restraint system
- (45) Air bag (use codes "16" and "17" for injuries sustained from air bag compartment covers)

- (46) Other occupants (specify):
- (47) Interior loose objects
- (48) Child safety seat (specify):
- (49) Other interior object (specify):

ROOF

- (50) Front header
- (51) Rear header
- (52) Roof left side rail
- (53) Roof right side rail
- (54) Roof or convertible top

FLOOR

- (56) Floor (including toe pan)
- (57) Floor or console mounted transmission lever, including console
- (58) Parking brake handle
- (59) Foot controls including parking brake

REAR

- (60) Backlight (rear window)
- (61) Backlight storage rack, door, etc.
- (62) Other rear object (specify):

CONFIDENCE LEVEL OF CONTACT POINT

- (1) Certain
- (2) Probable
- (3) Possible
- (9) Unknown

AUTOMATIC RESTRAINTS NOTES: Encode the data for each applicable front seat position. The attribute for the variables may be found below. Restraint systems should be assessed during the vehicle inspection then coded on the Occupant Assessment Form. **AIR BAGS** Left Right Availability/Function 1 R Deployment S **Failure** Air Bag System Availability/Function Air Bag System Deployment Are There Indications of Air Bag (0) Not equipped/not available (O) Not equipped/not available System Failure? (1) Air bag (1) Air bag deployed during accident (O) Not equipped/not available (as a result of impact) (1) No Non-functional (2) Air bag deployed inadvertently just (2) Yes (specify): (2) Air bag disconnected (specify): prior to accident RESTRICTED DEPLOYMENT (3) Air bag deployed, accident sequence (9) Unknown (3) Air bag not reinstalled undetermined (9) Unknown (4) Nondeployed (5) Unknown if deployed (6) Air bag deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (9) Unknown **AUTOMATIC BELTS** Left Right Availability/Function F Use R Type S **Proper Use** Failure Modes Automatic (Passive) Belt System Proper Use of Automatic (Passive) Belt Automatic (Passive) Belt Failure Modes Availability/Function System **During Accident** (O) Not equipped/not available (0) Not equipped/not available/not used (0) Not equipped/not available/not in use (1) 2 point automatic belts (1) Automatic belt used properly (1) No automatic belt failure(s) (2) 3 point automatic belts (2) Automatic belt used properly with (2) Torn webbing (stretched webbing not (3) Automatic belts - type unknown child safety seat included) (3) Broken buckle or latchplate Non-functional Automatic Belt Used Improperly Upper anchorage separated Automatic belts destroyed or (3) Automatic shoulder belt worn under (5) Other anchorage separated (specify): rendered inoperative (9) Unknown (4) Automatic shoulder belt worn behind (6) Broken retractor Automatic (Passive) Belt System Use Combination of above (specify): Automatic belt worn around more Other automatic belt failure (specify): (0) Not equipped/not available/destroyed than one person or rendered inoperative (6) Lap portion of automatic belt worn (9) Unknown (1) Automatic belt in use on abdomen (2) Automatic belt not in use (manually (7) Automatic lap and shoulder belt or disconnected, motorized track automatic shoulder belt used inoperative) improperly (3) Automatic belt use unknown

with child safety seat (specify):

(8) Other improper use of automatic belt

system

(9) Unknown

(specify):

(9) Unknown

Automatic (Passive) Belt System Type

(0) Not equipped/not available

(1) Non-motorized system

(2) Motorized system (9) Unknown

MANUAL RESTRAINTS

NOTES: Encode the applicable data for each seat position in the vehicle. The attribute for the variable may be found below. Restraint systems should be assessed during the vehicle inspection then coded on the Ocupant Assessment Form.

If a Child safety seat is present, encode the data on the back of this page.

If the vehicle has automatic restraints available, encode the appropriate data on the back of the previous

		Left	Center	Right
F	Availability	4		
i	Evidence of usage	94		4
R	Used in this crash?	YES		44
Ş	Proper Use	YFS 1	/	NO
	Failure Modes	/	/	N4
S	Availability	4	3	
Ĕ	Evidence of usage			4
SECOZD	Used in this crash?			
Ň	Proper Use			
ט	Failure Modes			
^	Availability			
0 T	Evidence of usage			
H	Used in this crash?			
E	Proper Use			
R	Failure Modes			

Manual	(Active)	Belt	System	Availability

- (0) None available
- (1) Belt removed/destroyed
- (2)Shoulder belt
- (3)Lap belt
- Lap and shoulder belt
- (5) Belt available type unknown

Integral Belt Partially Destroyed

- (6) Shoulder belt (lap belt destroyed/removed)
- (7) Lap belt (shoulder belt destroyed/removed)
- (8) Other belt (specify):
- (9) Unknown

Manual (Active) Belt System Use

- (00) None used, not available, or belt removed/destroyed
- (01) Inoperable (specify):
- (02)Shoulder belt
- (03)Lap belt
- Lap and shoulder belt (04)
- (05)Belt used - type unknown
- (08) Other belt used (specify):
- Shoulder belt used with child safety seat
- Lap belt used with child safety seat (13)
- (14) Lap and shoulder belt used with child safety seat
- (15) Belt used with child safety seat -
- type unknown Other belt used with child safety seat (specify):
- (99) Unknown if belt used

Proper Use of Manual (Active) Belts

- (0) None used or not available (1) Belt used properly
- (2) Belt used properly with child safety seat

Belt Used Improperly

- (3) Shoulder belt worn under arm
- Shoulder belt worn behind back or seat
- (5) Belt worn around more than one person
- (6) Lap belt worn on abdomen
- (7) Lap belt or lap and shoulder belt used improperly with child safety seat (specify):
- (8) Other improper use of manual belt system (specify):
- (9) Unknown

Manual (Active) Belt Failure Modes During Accident

- (0) No manual belt used or not available
- No manual belt failure(s)
- (2) Torn webbing (stretched webbing not included)
- Broken buckle or latchplate
- Upper anchorage separated
- (5) Other anchorage separated (specify):
- (6) Broken retractor
- (7) Combination of above (specify):
- (8) Other manual belt failure (specify):
- (9) Unknown

CHILD SAFETY SEAT FIELD ASSESSMENT

When a child safety seat is present enter the occupant's number in the first row and complete the column below the occupant's number using the codes listed below. Complete a column for each child safety seat present

1-1-1-1 1-2-1-1

The state of the s	ed below. Complete a column for each child safety seat present.
Occupant Number	
Type of Child Safety Seat	
Child Safety Seat Orientation	
Child Safety Seat Harness Usage	
4. Child Safety Seat Shield Usage	
5. Child Safety Seat Tether Usage	
6. Child Safety Seat Make/Model	Specify Below for Each Child Safety Seat
1. Type of Child Safety Seat (0) No child safety seat (1) Infant seat (2) Toddler seat (3) Convertible seat (4) Booster seat (7) Other type child safety seat (specify) (8) Unknown child safety seat type (9) Unknown if child safety seat used 2. Child Safety Seat Orientation (00) No child safety seat Designed for Rear Facing for This Age/Weight (01) Rear facing (02) Forward facing (08) Other orientation Designed for Forward Facing for This Age/Weight (11) Rear facing	3. Child Safety Seat Harness Usage 4. Child Safety Seat Shield Usage 5. Child Safety Seat Tether Usage Note: Options Below Are Used for Variables 3-5. (00) No child safety seat Not Designed with Harness/Shield/Tether (01) After market harness/shield/tether added, not used (02) After market harness/shield/tether used (03) Child safety seat used, but no after market harness/shield/tether added (09) Unknown if harness/shield/tether added or used Designed With Harness/Shield/Tether (11) Harness/shield/tether used (12) Harness/shield/tether used Unknown if Designed With Harness/Shield/Tether (21) Harness/shield/tether not used
(12) Forward facing (18) Other orientation (specify): (19) Unknown orientation	(22) Harness/shield/tether used(29) Unknown if harness/shield/tether used(99) Unknown if child safety seat used
Unknown Design or Orientation For This Age/Weight, or Unknown Age/Weight (21) Rear facing (22) Forward facing (28) Other orientation (specify):	6. Child Safety Seat Make/Model (Specify make/model and occupant number)
(29) Unknown orientation	
(99) Unknown if child safety seat used	

HEAD RESTRAINTS/SEAT EVALUATION

NOTES: Encode the applicable data for each seat position in the vehicle. The attribute for these variables may be found at the bottom of the page. Head restraint type/damage and seat type/performance should be assessed during the vehicle inspection then coded on the Occupant Assessment Form.

		Left	Center	Right
F	Head Restraint Type/Damage	3		3
R	Seat Type	41		41
S	Seat Performance	/		,
	Seat Orientation	1		/
S	Head Restraint Type/Damage	4	4	P
E	Seat Type	43	43	43
0	Seat Performance	1	1	,
D	Seat Orientation	,	1	,
т	Head Restraint Type/Damage			
H	Seat Type			
R D	Seat Performance			/
	Seat Orientation			
o L	Head Restraint Type/Damage			
T H	Seat Type			
E R	Seat Performance			/
`	Seat Orientation			

Head Restraint Type/Damage by Occupant at This Occupant Position

- No head restraints
- (1)
- Integral no damage Integral damaged during accident (2)
- (3) Adjustable no damage
- (4) Adjustable damaged during accident
- (5) Add-on no damage
 (6) Add-on damaged during accident
- Other Specify):
- (9) Unknown

Seat Type (this Occupant Position)

- Occupant not seated or no seat
- **Bucket** (01)
- (02) Bucket with folding back
- (03) Bench
- (04) Bench with separate back cushions
- Bench with folding back(s) (05)
- Split bench with separate back cushions (06)
- (07) Split bench with folding back(s)
- (08) Pedestal (i.e., column supported)
- (09) Other seat type (specify):
- (10) Box mounted seat (i.e., van type)
- (99) Unknown

Seat Performance (this Occupant Position)

- (0) Occupant not seated or no seat
- (1) No seat performance failure(s)
- (2) Seat adjusters failed
- (3) Seat back folding locks or "seat back" failed specify:
- Seat tracks/anchors failed
- (5) Deformed by impact of occupant
- (6) Deformed by passenger compartment intrusion (specify):
- (7) Combination of above (specify):
- (8) Other (specify):
- (9) Unknown

Seat Orientation (this Occupant Position)

- (0) Occupant not seated or no seat
- (1) Forward facing seat
- (2) Rear facing seat
- (3) Side facing seat (inward)
- (4) Side facing seat (outward)
- (8) Other (specify):
- (9) Unknown

DESCRIBE ANY INDICATION OF ABNORMAL OCCUPANT POSTURE (I.E., UNUSUAL OCCUPANT **CONTACT PATTERN)**

Cc	amplete the following if the rese	EJECTION					
in	omplete the following if the resea the vehicle. Code the appropria	arcner nas any ate data on the	indication to the Occupant	hat an occup t Assessmen	ant was eith t Form.	er ejected fr	om or entrap
EJI	ECTION No [V] Yes [escribe indications of ejection an	1					
_							
	Occupant Number						
	Ejection						
	(Note on Vehicle Interior Sketch) Ejection Area						
	Ejection Medium						
	Medium Status						
(2) (3)	tion Complete ejection Partial ejection Ejection, Unknown degree Unknown	(7) Roof (8) Other picku	er area (e.g., up, etc.) (spe	back of ecify):	(8) Ot	tegral structu ther medium	ure (specify):
jecti (1) (2) (3) (4) (5)	ion Area Windshield Left front Right front Left rear Right rear Rear	Ejection Me (1) Door/l (2) Nonfix (3) Fixed	edium /hatch/tailgat ixed roof stru	ructure	Medium to Impac (1) Ope (2) Clo	Status (Imm ct) pen psed regral structu	nediately Prio ure
	APMENT No [] Yes [•					
(4) (5) (6) 	Left rear Right rear Rear APMENT No [] Yes [(4) Nonfix	xed glazing ((specify):	(3) Inte (9) Uni	egral structu	re

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Component(s):_ (Note in vehicle interior diagram)

Administration

National Highway Traffic Safety

OCCUPANT ASSESSMENT FORM NATIONAL ACCIDENT SAMPLING SYSTEM

2. Case Number - Stratum A B 2 2 10. Occupant's Seat Position	
2. Case Number - Stratum AB 22 10. Occupant's Seat Position Front Seat	<u> </u>
3. Vehicle Number (11) Left side	
4. Occupant Number (12) Middle (13) Right side	
OCCUPANTIC CHARACTERISTICS (14) Other (specify):	
(15) On or in the lap of another occupant	_
5. Occupant's Age Code actual age at time of accident. (00) Less than one year old (specify by month): (97) 97 years and older (99) Unknown Second Seat (21) Left side (22) Middle (23) Right side (24) Other (specify): (25) On or in the lap of another occupant	
6. Occupant's Sex (1) Male (2) Female (9) Unknown Third Seat (31) Left side (32) Middle (33) Right side (34) Other (specify): (35) On or in the lap of another occupant	
7. Occupant's Height Code actual height to the nearest centimeter. (999) Unknown 59 inches X 2.54 = 159 centimeters Fourth Seat (41) Left side (42) Middle (43) Right side (44) Other (specify): (45) On or in the lap of another occupant (97) In or on unenclosed area (98) Other seat (specify): (99) Unknown	
8. Occupant's Weight Code actual weight to the nearest kilogram. (999) Unknown 1 Z B pounds X .4536 = \$\phi 5 B\$ kilograms 9. Occupant's Role (1) Driver (2) Passenger (9) Unknown 1 Z B pounds X .4536 = \$\phi 5 B\$ kilograms 1	nother

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	RESTRAINT SYS	TEM EVALUATION
	17. Manual (Active) Belt System Availability (0) None available (1) Belt removed/destroyed (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt	21. Air Bag System Availability/Function (0) Not equipped/not available (1) Air bag Non-functional
	(5) Belt available—type unknown	(2) Air bag disconnected (specify):
	Integral Belt Partially Destroyed (6) Shoulder belt (lap belt destroyed/removed) (7) Lap belt (shoulder belt destroyed/removed)	(3) Air bag not reinstalled (9) Unknown
	(8) Other belt (specify):	22. Air Bag System Deployment
	(9) Unknown	(0) Not equipped/not available (1) Air bag deployed during accident (as a result of impact)
	8. Manual (Active) Belt System Use (00) None used, not available, or belt removed/destroyed (01) Inoperative (specify):	(2) Air bag deployed inadvertently just prior to accident (3) Air bag deployed, accident sequence
	(02) Shoulder belt	undetermined (4) Nondeployed
	(03) Lap belt (04) Lap and shoulder belt (05) Belt used—type unknown (08) Other belt used (specify):	 (5) Unknown if deployed (6) Air bag deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (9) Unknown
	 (12) Shoulder belt used with child safety seat (13) Lap belt used with child safety seat (14) Lap and shoulder belt used with child safety seat (15) Belt used with child safety seat—type unknown 	23. Are There Indications of Air Bag System Failure?
	(18) Other belt used with child safety seat (specify): (99) Unknown if belt used	(0) Not equipped/not available (1) No (2) Yes (specify):
1.		(9) Unknown
	9. Proper Use of Manual (Active) Belts (0) None used or not available (1) Belt used properly (2) Belt used properly with child safety seat	Note: See Variables 44 through 48 (Page 5) for Information on Automatic Belts
	Belt Used Improperly (3) Shoulder belt worn under arm (4) Shoulder belt worn behind back or seat (5) Belt worn around more than one person (6) Lap belt worn on abdomen (7) Lap belt or lap and shoulder belt used improperly with child safety seat (specify):	24. Police Reported Restraint Use (0) None used (1) Police did not indicate restraint use (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt
	(8) Other improper use of manual belt system (specify):	(5) Belt used, type not specified(6) Child safety seat(7) Other or automatic restraint (specify):
	(9) Unknown	(8) Restrained, type unknown
20	Manual (Active) Belt Failure Modes During Accident (0) No manual belt used (1) No manual belt failure(s) (2) Torn webbing (stretched webbing not	(9) Police indicated "unknown"
	included) (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify):	
	(6) Broken retractor (7) Combination of above (specify):	
	(8) Other manual belt failure (specify):	
	(9) Unknown	

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HEAD RESTRAINT AN	a System: Occupant Assessment Form Page ND SEAT EVALUATION
25. Head Restraint Type/Damage by Occupant at This Occupant Position (0) No head restraints (1) Integral—no damage (2) Integral—damaged during accident (3) Adjustable—no damage (4) Adjustable—damaged during accident (5) Add-on—no damage (6) Add-on—damaged during accident (8) Other (specify): (9) Unknown 26. Seat Type (this Occupant Position) (00) Occupant not seated or no seat (01) Bucket (02) Bucket with folding back (03) Bench (04) Bench with separate back cushions (05) Bench with folding back(s) (06) Split bench with separate back cushions (07) Split bench with folding back(s) (08) Pedestal (i.e., column supported) (09) Other seat type (specify): (10) Box mounted seat (i.e., van type) (99) Unknown	27. Seat Performance (this Occupant Position) (0) Occupant not seated or no seat (1) No seat performance failure(s) (2) Seat adjusters failed (3) Seat back folding locks or "seat back" failed (specify): (4) Seat track/anchors failed (5) Deformed by impact of occupant (6) Deformed by passenger compartment intrusion (specify): (7) Combination of above (specify): (8) Other (specify): (9) Unknown

		CHILD SA	AFETY SEAT	
28	3. Child Safety Seat Make/Model (000) No child safety seat Applicable codes are found in your NAS Data Collection, Coding and Editing (950) Built-in child safety seat (997) Other make/model (specify): (998) Unknown make/model (999) Unknown if child safety seat use		33. Child Safety Seat Tether Usage	d d
	(333) Chikhowh ii Child Safety Seat USE	ła	Note: Options below applicable to Variables OA31-OA33. (00) No child safety seat	
29	. Type of Child Safety Seat (0) No child safety seat (1) Infant seat (2) Toddler seat (3) Convertible seat (4) Booster seat (7) Other type child safety seat (specify) (8) Unknown child safety seat used	<u>\$</u> y):	Not Designed With Harness/Shield/Tether (01) After market harness/shield/tether added, not used (02) After market harness/shield/tether used (03) Child safety seat used, but no after ma harness/shield/tether added (09) Unknown if harness/shield/tether added or used Designed With Harness/Shield/Tether (11) Harness/shield/tether not used (12) Harness/shield/tether market	i rket
	Child Safety Seat Orientation (00) No child safety seat Designed for Rear Facing for This Age/V (01) Rear facing (02) Forward facing (08) Other orientation (specify): (09) Unknown orientation Designed For Forward Facing for This Ag (11) Rear facing (12) Forward facing (18) Other orientation (specify): (19) Unknown orientation Unknown Design or Orientation For This Age/Weight, or Unknown Age/Weight (21) Rear facing (22) Forward facing (23) Forward facing (24) Other orientation (specify): (29) Unknown orientation (99) Unknown if child safety seat used	-	(12) Harness/shield/tether used (19) Unknown if harness/shield/tether used Unknown If Designed With Harness/Shield/Tet (21) Harness/shield/tether not used (22) Harness/shield/tether used (29) Unknown if harness/shield/tether used (99) Unknown if child safety seat used	ether

IN HIDY COMME	Page
INJURY CONSEQUENCES	38. Working Days Lost 9 7
34. Injury Severity (Police Rating) 4	Code the number of days
The state of the s	(up through 60) that the occupant
(0) O - No injury	lost from work due to the accident
(1) C - Possible injury	(00) No working days lost
(2) B - Nonincapacitating injury	(61) 61 days or more
(3) A - Incapacitating injury	(62) Fatally injured
(4) K - Killed	(97) Not working prior to accident
(5) U - Injury, severity unknown	(99) Unknown
(6) Died prior to accident	
(9) Unknown	STOP - GO TO VARIABLE 44 ON PAGE 7
	IF I MADEL THE DIE PAGE /
35. Treatment - Mortality	VARIABLES 39 THROUGH 43 ARE
(0) No treatment	COMPLETED BY THE ZONE CENTER
(1) Fatal	
(2) Fatal - ruled disease (specify):	
	39. Time to Death
	Code number of hours from time of
Nonfatal	accident to time of death up through 24
(3) Hospitalization	hours. If time of death is greater than 24
(4) Transported and released	hours, code number of days. (Note: 1 day =
(5) Treatment at scene - nontransported	31, 2 days = 32, n days = $30 + n up$ through 30 days = 60)
(6) Treatment later	(00) Not fatal
(8) Treatment - other (specify):	(96) Fatal - ruled disease
(9) Unknown	(99) Unknown
36. Type Of Medical Facility (for Initial Treatment) (0) Not treated at a medical facility (1) Trauma center (2) Hospital (3) Medical clinic (4) Physician's office (5) Treatment later at medical facility (8) Other (specify): (9) Unknown 37. Hospital Stay (00) Not Hospitalized — Code the number of days (up through 60) that the occupant stayed in hospital. (61) 61 days or more (99) Unknown	 40. 1st Medically Reported Cause of Death
-	43. Number of Recorded Injuries for This Occupant Code the actual number of injuries recorded for this occupant. (00) No recorded injuries (97) Injured, details unknown (99) Unknown if injured

AUTOMATIC BELT SYSTEM	
 44. Automatic (Passive) Belt System Availability/ Function (0) Not equipped/not available (1) 2 point automatic belts (2) 3 point automatic belts (3) Automatic belts - type unknown Non-functional (4) Automatic belts destroyed or rendered inoperative (9) Unknown 45. Automatic (Passive) Belt System Use 	48. Automatic (Passive) Belt Failure Modes During Accident (0) Not equipped/not available/not in use (1) No automatic belt failure(s) (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify): (6) Broken retractor (7) Combination of above (specify): (8) Other automatic belt failure (specify):
(0) Not equipped/not available/destroyed or rendered inoperative (1) Automatic belt in use (2) Automatic belt not in use (manually disconnected, motorized track inoperative) (specify): (3) Automatic belt use unknown (9) Unknown 46. Automatic (Passive) Belt System Type (0) Not equipped/not available (1) Non-motorized system (2) Motorized system (9) Unknown	49. Seat Orientation (this Occupant Position) (0) Occupant not seated or no seat (1) Forward facing seat (2) Rear facing seat (3) Side facing seat (inward) (4) Side facing seat (outward) (8) Other (specify): (9) Unknown
47. Proper Use of Automatic (Passive) Belt System (0) Not equipped/not available/not used (1) Automatic belt used properly (2) Automatic belt used properly with child safety seat Automatic Belt Used Improperly (3) Automatic shoulder belt worn under arm (4) Automatic shoulder belt worn behind back (5) Automatic belt worn around more than one person (6) Lap portion of automatic belt worn on abdomen (7) Automatic lap and shoulder belt or automatic shoulder belt used improperly with child safety seat (specify): (8) Other improper use of automatic belt system (specify): (9) Unknown	Check the Primary Source Used In Determining Belt Use. [] Not equipped/not available/destroyed or rendered inoperative [] Vehicle inspection [] Official injury data [] Driver/occupant interview [] Other (specify): [] Unknown if belt used
ARE ALL APPLICABLE MEDICAL RECORD WITH INITIAL SUBMISSION?	OS INCLUDED NO[] YES [K]
UPDATE CANDIDATE?	NO [X] YES []

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STOP - VARIABLES 50 THROUGH 53 ARE COMPLETED BY THE ZONE CENTER

TRAUMA DATA

- 50. Glasgow Coma Scale (GCS) Score (at Medical Facility)
 - (00) Not injured
 - (01) Injured not treated at medical facility
 - (02) No GCS Score at medical facility
 - (03-15) Code the actual value of the initial GCS Score recorded at medical facility.
 - (97) Injured, details unknown
 - (99) Unknown if injured
- 51. Was the Occupant Given Blood?
 - (1) No blood not given
 - (2) Yes blood given (specify units):
 - (9) Unknown if blood given
- 52. Arterial Blood Gases (ABG) HCO₃
 - (00) Not injured
 - (01) Injured, ABGs not measured or reported
 - (02-50) Code the actual value of theHCO3
 - (96) ABGs reported , HCO3 unknown
 - (97) Injured, details unknown
 - (99) Unknown if injured

BELT USE DETERMINATION

- 53. Primary Source of Belt Use Determination
 - Not equipped/not available/destroyed or rendered inoperative
 - (1) Vehicle inspection
 - Official injury data (2)
 - (3) Driver/occupant interview
 - WITNESSES (8) Other (specify):
 - (9) Unknown if belt used

U.S. Department of Transportation National Highway Traffic Safety Administration

OCCUPANT INJURY FORM

Form Approved
O.M.B. No. 2127-0021

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS BATA SYSTEM

1. Primary Sampling Unit Number

3. Vehicle Number

0/

2. Case Number - Stratum

AB 22

4. Occupant Number

41

INJURY DATA

Record below the actual injuries sustained by this occupant that were identified from the official and unofficial data sources. Remember not to double count an injury just because it was identified from two different sources. If greater than ten injuries have been documented, encode the balance on the Occupant Injury Supplement.

Г	Source			O.I.CA.I.S								Inju	Injury	
	of	ource Injury Data	Bod Regio	y Ana	pe of tomic icture	Specific Anatomic Structure	L	evel of injury	A.I.S. Severit		Injury et Source		ence Indir	ect Intrusion
													the second second second	15. <u>Ø Ø</u>
	\$27 Yangan (1997)	1.5 4 4 3 3 7 5				and the same with the		77.77	CONTRACTOR	* 127 (127 (127 (127 (127 (127 (127 (127				28. <u>4 4</u>
	3 80 March										as. 16			
			1.00		A 4 38.00	. N	\$450		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		45. <u>45</u>			
5 th	49.	/ 50). <u>B</u>	51. <u>9</u>	52.	<u> </u>	53. <u>Ø</u>	<u>~</u>	54. <u>/</u>	55. <u>2</u>	_{56.} <u>ф 9</u>	57.	58	59. <u>0</u> 4
S th	60	<u>/</u> 61	. <u> </u>	62. <u>9</u> _	63.	<u>¢ 2</u>	64. <u>Ø</u>	<u>2</u>	85. <u>/</u>	662	67. <u>56</u>	68. <u>Z</u>	69. <u>/</u>	70. <u>4 ¢</u>
, 7th	71	/ _ 72	7	73. <u>9</u>	74.	<u> 06</u> .	76. <u>ø</u>	ø.	76. <u>/</u>	77. <u>Z</u>	78. <u>4 9</u>	79. <u> </u>	80. <u>/</u>	81. <u>0 </u>
8th	82	/ _ 83.	2	84. <u>9</u>	85.	<u> 44</u>	16. <u>4</u>	<u>-</u> •	7	88. <u>2</u>	88. <u> </u>	90. <u>/</u>	91. <u> </u>	92. <u>4</u>
9th	93	/ _ 94.	<u> 2</u>	95. <u>¶</u>	96	<u>02</u> 9	7. <u>@ 2</u>	<u> </u>	8. <u>/</u> . 1	19. <u>2</u> 1	∞. <u>45</u>	101. <u>/</u>	102 1	103. <u>49</u>
10th	104	_ 105.	<u></u>	06. <u>9</u>	107	<u>d 2</u> 10	e. <u>#</u> _	<u>2</u> 10	•. <u>/</u> 11	02_1	11. <u>45</u>	1121	118. <u>/</u> 1	14. <u>#</u> #
447														

		OCCUPANT INJURY DATA				loine					
	Source of Injury Data	Body Region	Type of Anatomic Structure	Specific Anatomic Structure	Level of Injury	A.I.S. Severity	Aspect	Injury Source	Injury Source Confidence Level	Direct/ Indirect Injury	Occupant Area Intrusion Number
11th	7	<u>2</u>	9	<u> 42</u>	42	7	<u>_B</u>	16	<u>2</u>		9 4
12th	1	3	9	42	4 2		_	16		7	
1201				¥E		<u>_</u> Z	<u>5</u>		<u>2</u>	_	<u>#</u>
13th						—	_			-	
14th							•••••••••••••••••••••••••••••••••••••••				
											,
16th									<u> </u>		
8th											
						_	_		_		
7th	-	_	_			_	-		_	_	
th	_	_									
							_		_		
kth						_	_		_		
th		_				_					
et .	_ :	-									
w _		_									
d											
_		-								-	
• _	-, -	-								_	_
		1000									

5분 3년 4년 1년

で: (特 (別)

3.3

Indicate the Location, Specific Anatomic Structure, Detail (size, depth, fracture type, head injury clinical signs and neurological deficits), and Source of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.)

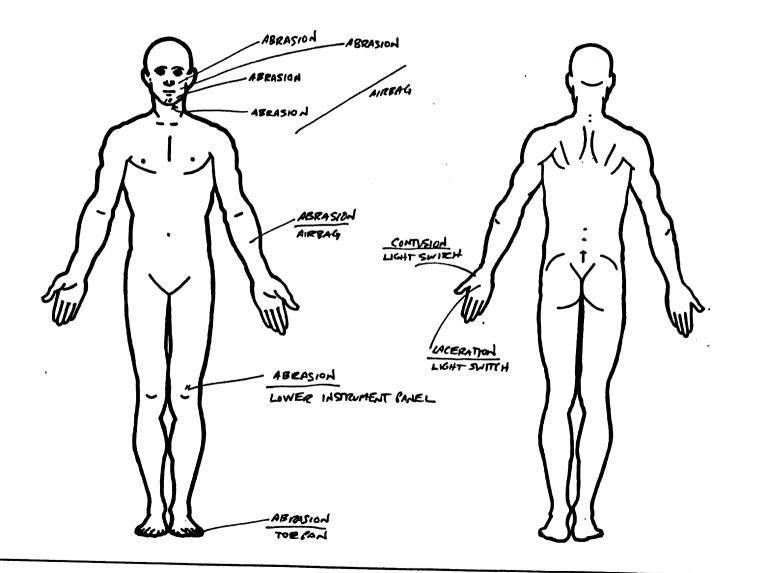
100 (0.1)

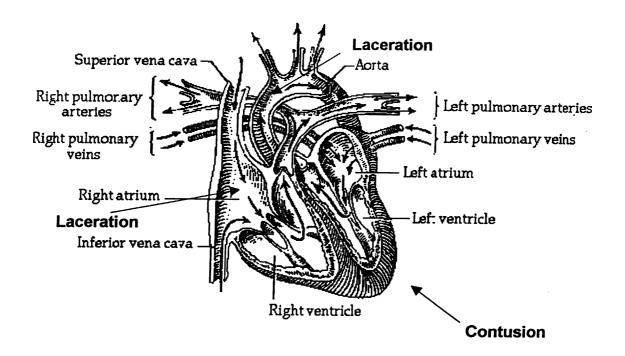
· 编数:

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4.3.4

\$0.00X





Restrained? No Yes	Indicate the Location Specific Apatomic Sauce Day 1997	depth, fracture type, head injury clinical signs and neurological deficits), and or other unofficial sources if medical records and interviewee data are
Blood Alcohol Level (mg/dl) BAL = Glasgow Coma Scale Score	i bod	The state of the s
GCSS = Units of Blood Given Units = Arterial Blood Gases		
PH = PO ₂ = PCO ₂ HCO ₃		

times date to

\$80.80

2333333

(888) 198 - 198

SOURCE OF INJURY DATA (25) Left side window glace or frame (61) Backlight storage rack, door, etc. OFFICIAL (26) Left side window gless including (62) Other rear object (specify): (1) Autopsy records with or without hospital/ one or more of the following: medical records frame, window sill, A (A1/A2)-piller, (2) Hospital/medical records other than 8-piller, or roof side rail. EXTERIOR of OCCUPANT'S VEHICLE emergency room (e.g., discharge (27) Other left side object (specify): (65) Hood summary) (66) Outside hardware (e.g., outside (3) Emergency room records only (including (28) Left side window sill mirror, antenna) essociated X-rays or other lab reports) (67) Other exterior surface or tires (4) Private physician, walk-in or emergency RIGHT SIDE (specify): (30) Right side interior surface, (68) Unknown exterior objects excluding hardware or armrests UNOFFICIAL (31) Right side herdware or armrest EXTERIOR OF OTHER MOTOR VEHICLE (32) Right A (A1/A2)-pillar (6) Lay coroner report (70) Front bumper (6) E.M.S. personnel (33) Right B-piller (71) Hood edge (7) Interviewee (34) Other right piller (specify): (72) Other front of vehicle (specify): (8) Other source (specify): (35) Right side window glass or frame (73) Hood (36) Right side window glass including (74) Hood ornament one or more of the following: (75) Windshield, roof rail, A-pillar frame, window sill, A (A1/A2)-piller, (76) Side surface **INJURY SOURCE** B-piller, or roof side rail. (77) Side mirrors FRONT (37) Other right side object (specify): (78) Other side protrusions (specify) (01) Windshield (02) Mirror (38) Right side window sill (79) Rear surface (03) Sunvisor (80) Undercarriage (04) Steering wheel rim INTERIOR (81) Tires and wheels (05) Steering wheel hub/spoke (40) Seat, back support (82) Other extenor of other motor vehicle (06) Steering wheel (combination (41) Belt restraint webbing/buckle (specify): of codes 04 and 05) (42) Belt restraint 8-pillar or door frame (07) Steering column, transmission attachment point (83) Unknown exterior of other motor vehicle , selector lever, other attachment (43) Other restraint system component (08) Add on equipment (e.g., CB, tape (specify):_ OTHER VEHICLE OR OBJECT IN THE deck, air conditioner) (44) Head restraint system ENVIRONMENT (09) Left instrument panel and below (45) Air bag (use codes "16" and "17" for injuries (84) Ground (10) Center instrument panel and below sustained from air bag compartment covers) (86) Other vehicle or object (specify) (11) Right instrument panel and below (46) Other occupants (specify): (12) Giove compartment door (88) Unknown vehicle or object (13) Knee bolster (47) Interior loose objects (14) Windshield including one or more (48) Child safety seat (specify): NONCONTACT INJURY of the following: front header. (90) Fire in vehicle A (A1/A2)-piller, instrument panel, (49) Other interior object (specify): (91) Flying glass mirror, or steering assembly (driver (92) Other noncontact injury source side only) (specify):__ (15) Windshield including one or more ROOF (93) Air bag exhaust gases of the following: front header, A (A1/A2)-pillar, instrument penel, or (50) Front header (97) Injured, unknown source (51) Rear header mirror (passanger side only) (52) Roof left side rail INJURY SOURCE CONFIDENCE (16) Driver side air bag compartment cover (63) Roof right side rail LEVEL (17) Passenger side air bag compartment cover (54) Roof or convertible top (1) Certain (2) Probabi (18) Windshield reinforced by exterior object Probable (specify):_ (19) Other front object (specify): (56) Floor (including toe pan) (57) Floor or console mounted transmission lever, including LEFT SIDE console **DIRECT/INDIRECT INJURY** (20) Left side interior surface, (58) Parking brake handle (59) Foot controls including parking (1) Direct contact injury (2) Indirect contact injury excluding hardware or armrests (21) Left side hardware or armrest Noncontact injury (22) Left A (A1/A2)-pillar Injured, unknown source (23) Left B-pillar REAR (24) Other left piller (specify): (60) Backlight (rear window) OCCUPANT INJURY CLASSIFICATION Specific Anetomic Structure **Abbreviated Injury Scale** Soine (02) Cervical (04) Thoracic (06) Lumber Head Whole Area (02) Skin - Abres (1) Minor injury Face Neck (3)

Body Region (2) (3) (4) **(5)** Abdomen

....

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. . .

(6) (7)

(4)

Spine Upper Extremity

Type of Anatomic Structure

Organe (includes muscles/ ligaments) Skeletal (includes joints)

Unspecified

Whole Area

Head · LOC Skin

Veccele Nerves

(04) Skin - Contusk (06) Skin - Lecereti (06) Skin - Avulsion (10) Amputation Skin - Avulsion Amputeti Burn Crueh (20) (30) (40) (60) Degloving Injury - NFS Treume, other ie, other than mechanical

Head - LOC (02) Length of LOC (04, 06, 06) Level of Consciousness (10) Concussion

<u>Vescels, Nervee, Organe, Bones, Joints</u> are assigned consecutive two digit numbers beginning with 02

Lovel of Injury

Specific injuries are assigned consecutive two-digit numbers beginning with 02.

To the extent possible, within the organizational framework of the AIS, OO is assigned to an injury NFS as to severity or where only one injury is given in the distributionary for that enatomic structure. 99 is seeigned to any injury NPS as to ission or severity.

Moderate Injury Moderate Injury Serious Injury Critical Injury 14667 Intered, unknown severity

Right (34) (6) (7) Central Anterior Posterior

lational Highway Traffic Safety Administration	GENERAL VEHICLE FORM NATIONAL ACCIDENT SAMPLING S
1. Primary Sampling Unit Number 2. Case Number - Stratum 3. Vehicle Number VEHICLE IDENTIFICA 4. Vehicle Model Year Code the last two digits of the me (99) Unknown 5. Vehicle Make (specify): MITSUBISH 1 Applicable codes are found in your NASS Data Collection, Coding and Editing Manual. (99) Unknown	11. Police Reported Alcohol Presence (0) No alcohol present (1) Yes (alcohol present) (7) Not reported (8) No driver present (9) Unknown Note: See variables 37 through 55 (Page 4) for information on Other Drugs (12. Alcohol Test Result For Driver Code actual value (decimal implied before first digit—0.xx) (95) Test refused (96) None given (97) AC test performed, results unknown
6. Vehicle Model (specify): ECIPSE Applicable codes are found in you NASS Data Collection, Coding and Editing Manual. (999) Unknown 7. Body Type Note: Applicable codes may be for the back of this page. 8. Vehicle Identification Number 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	(000) No statutory limit Code posted or statutory speed limit in kph (999) Unknown 25 mph x 1.6093 = 64 pkph 14. Attempted Avoidance Maneuver (01) No avoidance actions (02) Braking (no lockup) (03) Braking (lockup) (04) Braking (lockup unknown) (05) Releasing brakes (06) Steering left (07) Steering right (08) Braking and steering left (09) Braking and steering right (10) Accelerating (11) Accelerating and steering right (97) No driver present (98) Other action (specify): (99) Unknown
Code to the nearest kph (NOTE: 00 less than 0.5 kph) (160) 159.5 kph and above (999) Unknown mph X 1.6093 = kph	15. Accident Type Applicable codes may be found on the back of page two of this field form (00) No impact Code the number of the diagram that best describes the accident circumstance (98) Other accident type (specify): (99) Unknown

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CODES FOR BODY TYPE

CDS APPLICABLE VEHICLES

Automobiles

- (01) Convertible (excludes sun-roof, t-bar)
- (02) 2-door sedan, hardtop, coupe
- (03) 3-door/2-door hatchback
- (04) 4-door sedan, hardtop
- (05) 5-door/4-door hatchback
- (06) Station wagon (excluding van and truck based)
- (07) Hatchback, number of doors unknown
- (08) Other automobile type (specify):
- (09) Unknown automobile type

Automobile Derivatives

- (10) Auto based pickup (includes El Camino, Caballero, Ranchero, Brat, and Rabbit pickup)
- (11) Auto based panel (cargo station wagon, auto based ambulance/hearse)
- (12) Large limousine more than four side doors or stretched chassis
- (13) Three-wheel automobile or automobile derivative

Utility Vehicles (≤ 4,500 kgs GVWR)

- (14) Compact utility (Jeep CJ-2 CJ-7, Scrambler, Golden Eagle, Renegade, Laredo, Wrangler, Cherokee [84 and after], Dispatcher, Raider, Bronco II, Bronco [76 and before], Explorer, S-10 Blazer, Geo Tracker, Bravada, S-15 Jimmy, Thing, Pathfinder, Trooper, Trooper II, Rodeo, Amigo, Navajo, 4-Runner, Montero, Samurai, Sidekick, Rocky)
- (15) Large utility (includes Jeep Cherokee [83 and before], Ramcharger, Trailduster, Bronco-fullsize [78 and after], fullsize Blazer, fullsize Jimmy, Landcruiser, Rover, Scout)
- (16) Utility station wagon (Chevy Suburban, GMC Suburban, Travelall, Grand Wagoneer, includes suburban limousine)
- (19) Utility, unknown body type

Van Based Light Trucks (≤ 4,500 kgs GVWR)

- (20) Minivan (Chrysler Town and Country, Caravan, Grand Caravan, Voyager, Grand Voyager, Mini-Ram, Dodge/Plymouth Vista, Aerostar, Villager, Lumina APV, Trans Sport, Silhouette, Astro, Safari, Toyota Van, Toyota Minivan, Previa, Nissan Minivan, Quest, Mitsubishi Minivan, Vanagon/Camper.)
- (21) Large van (B150-B350, Sportsman, Royal, Maxiwagon, Ram, Tradesman, Voyager [83 and before], E150-E350, Econoline, Clubwagon, Chateau, G10-G30, Chevy Van, Beauville, Sport Van, G15-G35, Rally Van, Vandura.)
- (22) Step van or walk-in van (≤ 4,500 kgs GVWR)
- (23) Van based motorhome (≤ 4,500 kgs GVWR)
- (24) Van based school bus (≤ 4,500 kgs GVWR)
- (25) Van based other bus (≤ 4,500 kgs GVWR)
- (28) Other van type (Hi-Cube Van, Kary) (specify):
- (29) Unknown van type

Light Conventional Trucks (Pickup style cab, ≤ 4,500 kgs GVWR)

- (30) Compact pickup (D50, Colt P/U, Ram 50, Dakota, Arrow Pickup [foreign], Ranger, Courier, S-10, T-10, LUV, S-15, T-15, Sonoma, Datsun/Nissan Pickup, P'up, Mazda Pickup, Toyota Pickup, Mitsubishi Pickup)
- (31) Large Pickup (Jeep Pickup, Comanche, Ram Pickup, D100-D350, W100-W350, F100-F350, C10-C35, K10-K35, R10-R35, V10-V35, Silverado, Sierra, R100-R500,)

- (32) Pickup with slide-in camper
- (33) Convertible pickup
- (39) Unknown pickup style light conventional truck type

Other Light Trucks (≤ 4,500 kgs GVWR)

- (40) Cab chassis based (includes rescue vehicles, light stake, dump, and tow truck)
- (41) Truck based panel
- (42) Light truck based motorhome (chassis mounted)
- (45) Other light conventional truck type
- (48) Unknown light truck type
- (49) Unknown light vehicle type (automobile, utility, van, or light truck)

OTHER VEHICLES

Buses (Excludes Van Based)

- (50) School bus (designed to carry students, not cross country or transit)
- (58) Other bus type (e.g., transit, intercity, bus based motorhome) (specify):
- (59) Unknown bus type

Medium/Heavy Trucks (> 4,500 kgs GVWR)

- (60) Step van (> 4,500 kgs GVWR)
- (61) Single unit straight truck (4,500 kgs < GVWR ≤ 8,850 kgs)
- (62) Single unit straight truck (8,850 kgs < GVWR ≤ 12,000 kgs)
- (63) Single unit straight truck (> 12,000 kgs GVWR)
- (64) Single unit straight truck, GVWR unknown
- (65) Medium/heavy truck based motorhome
- (67) Truck-tractor with no cargo trailer(68) Truck-tractor pulling one trailer
- (69) Truck-tractor pulling two or more trailers
- (70) Truck-tractor (unknown if pulling trailer)
- (78) Unknown medium/heavy truck type
- (79) Unknown truck type (light/medium/heavy)

Motored Cycles (Does Not Include All-Terrain Vehicles/Cycles)

- (80) Motorcycle
- (81) Moped (motorized bicycle)
- (82) Three-wheel motorcycle or moped
- (88) Other motored cycle (minibike, motorscooter) (specify):
- (89) Unknown motored cycle type

Other Vehicles

- (90) ATV (All-Terrain Vehicle) and ATC (All-Terrain Cycle)
- (91) Snowmobile
- (92) Farm equipment other than trucks
- (93) Construction equipment other than trucks
- (97) Other vehicle type
- (99) Unknown body type

OCCUPANT RELATED	1 09
16. Driver Presence in Vehicle (0) Driver not present (1) Driver present (9) Unknown 17. Number of Occupants This Vehicle (00-96) Code actual number of occupants for this vehicle (97) 97 or more (99) Unknown 18. Number of Occupant Forms Submitted	24. Rollover (0) No rollover (no overturning) Rollover (primarily about the longitudinal axis) (1) Rollover, 1 quarter turn only (2) Rollover, 2 quarter turns (3) Rollover, 3 quarter turns (4) Rollover, 4 or more quarter turns (specify): (5) Rolloverend-over-end (i.e., primarily about the lateral axis) (9) Rollover (overturn), details unknown
VEHICLE WEIGHT ITEMS	OVERRIDE/UNDERRIDE (THIS VEHICLE)
19. Vehicle Curb Weight Code weight to nearest 10 kilograms. (045) Less than 450 kilograms (610) 6,100 kilograms or more (999) Unknown 2.524 lbs X.4536 = 1,145 kgs Source: 20. Vehicle Cargo Weight Code weight to nearest 10 kilograms. (000) Less than 5 kilograms (450) 4,500 kilograms or more (999) Unknown Ibs X.4536 =kgs RECONSTRUCTION DATA	
(1) Yes—towed trailing unit (9) Unknown 2. Documentation of Trajectory Data for This Vehicle (0) No (1) Yes	HEADING ANGLE AT IMPACT FOR HIGHEST DELTA V Values: (000)-(359) Code actual value (997) Noncollision (998) Impact with object (999) Unknown
(o) Not collision (for highest delta V) with	27. Heading Angle For This Vehicle 175 28. Heading Angle For Other Vehicle 265

Andrew Andrew Andrew

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Cate- gory	Configur- ation	ACCIDENT TYPES			
	Α.	ACCIDENT TYPES (Includes	Intent)		
driver	Right Roadside Departure	DRIVE OFF		04	06
	B. Left	TRACTION LOSS WITH	COLLISION S	PECIFICS OTHER	SPECIFICS UNKNOWN
Single Driver	Roadside Departure	DRIVE OFF CONTROL/ AVOID	COLLISION	09 PECIFICS	10
	c	TRACTION LOSS WITH	VER., PED., ANIM.		SPECIFICS UNKNOWN
	Forward Impact	PARKED VEH. STA. OBJECT PEDESTRIAN/			16
	D	20 22 24 26 m	DEBARTURE	PECIFICS THER	SPECIFICS UNKNOWN
VE N	Rear-End	21 25 27 STOPPED SLOWER 27	74	EACH • 32)	(EACH • 33)
Trafficway	ŀ.	25. 26. 27 25. 30, 1)1 SI	THER	SPECIFICS UNKNOWN
II Sank	Forward Impact	75	N AVOID COLLISIO	N SPECIFICS	2) (EACH • 43 SPECIFICS
	F. Sideswipe Angle	44 45 45 (E	WITH OBJECT EACH • 48) PECIFICS	OTHER (EACH	UNKNOWN
_	G Head-On	50 51 (EACH • 52) (E	THER EACH • 53)	J. ECIFIC.	SUNKNOWN
Trafficway ite Directio	Н	LATERAL MOVE OTHER S	PECIFICS UNKNOWN		
ame Trafficway ppyyate Direction	Forward Impact	CONTROL/ CONTROL/ AVOID CONTROL/		I LEACH • 6	21(EACH • 63)
III Sun	1.	TRACTION LOSS TRACTION LOSS WITH VEH.	WITH OBJECT	SPECIFICS OTHER	SPECIFICS UNKNOWN
	Sideswipe' Angle	***************************************	EACH • 67) PECIFICS UNKNOWN		
Trafficway Turning	J. Turn Across	69 71 70 73 72 INITIAL OPPOSITE INITIAL SAME DIRECTIONS	ン	(EACH • 74)	(EACH • 75)
Change Tri Vehicle Tu	Path K.	DIRECTIONS INITIAL SAME DIRECTIONS	·		SPECIFICS UNKNOWN
V. Ch	Turn Into Path	76 78 80 81	83 82		(EACH • 85)
	L.	TURN INTO SAME DIRECTION TURN INTO OPPOS		SPECIFICS OTHER	SPECIFICS UNKNOWN
>	Straight Paths	86 88 89 s	EACH • 90) SPECIFICS OTHER	(EACH • 91) SPECIFICS UNI	KNOWN
VI. Miscel- lancous	M. Backing Eic.	BACKING 9	8 Other Accident T 9 Unknown Accide 0 No Impact	ype nt Type	

i e	
29. Basis for Total Delta V (highest) 2	. 1
Delta V Calculated	32. Lateral Component of Delta V 4 1 Z
(1) CRASH program—damage only routine (2) CRASH program—damage and trajectory	Nearest kph (highest)
routine (3) Missing vehicle algorithm	Nearest kph (secondary)
Delta V Not Calculated	(NOTE:000 means greater than
(4) At least one vehicle (which may be this vehicle) is beyond the scope of an acceptable reconstruction program, regardless of collision conditions.	-0.5 kph and less than +0.5 kph) (±160) ±159.5 kph and above (_999) Unknown
(5) All vehicles within scope (CDC applicable)	33. Energy Absorption 4 5, 3 00
of CRASH program but one of the collision conditions is beyond the scope of the CRASH	37 18.1 53 12. Nearest 100 joules (highest)
program or other acceptable reconstruction technique, regardless of adequacy of damage	1
data. (6) All vehicle and collision conditions are within	Nearest 100 joules (secondary)
scope of one of the acceptable reconstruction programs, but there is insufficient data available.	(NOTE: 0000 means less than 50 joules) (9997) 999,650 joules or more (9999) Unknown
COMPUTER GENERATED DELTA V	34. Confidence In Reconstruction Program
	Results (For Highest Delta V) (0) No reconstruction
Highest	(1) Collision fits model — results appear reasonable
30. Total Delta V ϕ 1 Z	(2) Collision fits model — results appear high
1.3 Nearest kph (highest)	(3) Collision fits model — results appear low (4) Borderline reconstruction — results appear
Nearest kph (secondary)	reasonable
(NOTE: 000 means less than 0.5 kph)	35. Type of Vehicle Inspection 2
(160) 159.5 kph and above	(0) No inspection
(999) Unknown	(1) Complete inspection(2) Partial inspection (specify):
31. Longitudinal Component of +	PHOTOS ONLY
Delta V <u>Q</u> ¢ ¢ z	36. Is this an AOPS Vehicle?
Nearest kph (highest)	(O) No
Nearest kph (secondary)	(1) Yes - researcher determined(2) VIN determined air bag system
	(3) VIN determined automatic (passive) belts
(NOTE:000 means greater than -0.5 kph and less than +0.5 kph)	(4) VIN determined air bag and automatic (passive) belts
(±160) ±159.5 kph and above (_999) Unknown	
IS OLDMISS APPLICABLE FOR TH	HIS VEHICLE? [] VES [// NO
IF YES: IS A COMPLETED OLDMISS PROGRAM	
	WI SUMMARY INCLUDED? [] YES [] NO

::: ::: :::::

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37. Police Reported Other Drug Presence (0) No other drug(s) present (1) Yes [other drug(s) present] (7) Not reported (8) No driver present (9) Unknown	DRUG EVALUATION CLASSIFICATION OTHER DRUGS TEST RESULTS FOR DRIVER DEC Specimen Test Test Results Results Narcotic Drug 40. \$\phi\$ 41. \$\phi\$ Depressant Drug 42. \$\frac{\phi}{\phi}\$ 43. \$\frac{\phi}{\phi}\$ Stimulant Drug 44. \$\phi\$ 45. \$\phi\$
38. Police Reported Drug Evaluation Classification (DEC) Test For Driver (0) No DEC process available or given (1) DEC process given, results known (2) DEC process given, results unknown (3) DEC process available, unknown if given (8) No driver present	Hallucinogen Drug Hallucinogen
(0) No specimen test given (1) Blood test (2) Urine test (3) Other specimen tests (specify): (7) Unspecified specimen test (8) No driver present (9) Unknown if specimen test given	 (0) No DEC test given (1) Passed DEC test (2) Failed DEC test (3) DEC test given—results unknown (8) No driver present (9) Unknown if DEC test given Codes for Specimen Test Results (0) No specimen test given (1) Drug not found in specimen (2) Drug found in specimen (7) Specimen test given, results unknown or not obtained (8) No driver present (9) Unknown if specimen test given

CODES FOR ROLLOVER INITIATION OBJECT CONTACTED

(00) No rollover	(57) Fence
(01-30) — Vehicle Number	(58) Wail
Noncollision	(59) Building
(31) Turn-over — fall-over	(60) Ditch or culvert
(33) Jackknife	(61) Ground
(55) Sackriffe	(62) Fire hydrant
Collision With Fixed Object	(63) Curb
(41) Tree (≤ 10 cm in diameter)	(64) Bridge
(42) Tree (> 10 cm in diameter)	(68) Other fixed object (specify):
(43) Shrubbery or bush	<u> </u>
(44) Embankment	(69) Unknown fixed object
(44) Embankment	
(45) Breakaway nolo or neet to the	Collision with Nonfixed Object
(45) Breakaway pole or post (any diameter)	(71) Motor vehicle not in-transport
Nonbreakaway Pole or Post	(76) Animal
(50) Pole or post / 10 am in diameter	(77) Train
(50) Pole or post (≤ 10 cm in diameter)	(78) Trailer, disconnected in transport
(51) Pole or post (> 10 cm but ≤ 30 cm in diameter)	(79) Object fell from vehicle in-transport
	(88) Other nonfixed object (specify):
(52) Pole or post (> 30 cm in diameter)	· · ·
(53) Pole or post (diameter unknown)	(89) Unknown nonfixed object
(54) Concrete traffic barrier	
(55) Impact attenuator	(98) Other event (specify):
(56) Other traffic barrier (includes guardrail)	
(specify):	(99) Unknown event or object
(aboon)/.	•

** ***

OTHER DATA	
56. Driver's Zip Code	61. Rollover Initiation Object Contacted
(00000) Driver not present (00001) Driver not a resident of U.S. or territories Code actual 5-digit zip code (99999) Unknown	62. Location on Vehicle Where Initial Principal Tripping Force Is Applied (0) No rollover (1) Wheels/tires
57. Driver's Race/Ethnic Origin (0) Driver not present (1) White (non-Hispanic) (2) Black (non-Hispanic) (3) White (Hispanic) (4) Black (Hispanic) (5) American Indian, Eskimo or Aleut (6) Asian or Pacific Islander (8) Other (specify):	(2) Side plane (3) End plane (4) Undercarriage (5) Other location on vehicle (specify): (8) Non-contact rollover forces (specify): (9) Unknown
(9) Unknown 58. Vehicle Special Use (This Trip) (0) No special use (1) Taxi (2) Vehicle used as school bus (3) Vehicle used as other bus (4) Military (5) Police (6) Ambulance	(0) No rollover (1) Roll right - primarily about the longitudinal axis (2) Roll left - primarily about the longitudinal axis (5) End-over-end (i.e., primarily about the lateral axis) (9) Unknown roll direction
(7) Fire truck or car (8) Other (specify):	PRECRASH DATA 64. Pre-Event Movement (Prior to Recognition of Critical Event)
ROLLOVER DATA If GV07 (Body Type) ≠ 1-49, leave GV59-GV63 blank. If GV24 (Rollover) = 0, then GV59-GV63 must equal 0. If GV24 = 9, then GV59-GV63 must equal 9. 59. Rollover Initiation Type (0) No rollover (1) Trip-over (2) Flip-over (3) Turn-over (4) Climb-over	(01) Going straight (02) Slowing or stopping in traffic lane (03) Starting in traffic lane (04) Stopped in traffic lane (05) Passing or overtaking another vehicle (06) Disabled or parked in travel lane (07) Leaving a parking position (08) Entering a parking position (09) Turning right (10) Turning left (11) Making a U-turn
(5) Fall-over (6) Bounce-over (7) Collision with another vehicle (8) Other rollover initiation type specify): (9) Unknown rollover initiation type	 (12) Backing up (other than for parking position) (13) Negotiating a curve (14) Changing lanes (15) Merging (16) Successful avoidance maneuver to a previous critical event (97) Other (specify):
60. Location of Rollover Initiation (0) No rollover (1) On roadway (2) On shoulder—paved (3) On shoulder—unpaved (4) On roadside or divided trafficway median (9) Unknown	(98) No driver present (99) Unknown

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	ATA (Continued)
65. Critical Precrash Event	Pedestrian or Pedalcyclist, or Other Nonmotorist
This Vehicle Loss of Control Due To:	I (OU) redestrian in roadway
(01) Blow out or flat tire	(81) Pedestrian approaching roadway
	(82) Pedestrian—unknown location
(02) Stalled engine	(83) Pedalcyclist or other nonmotorist in roadway
(03) Disabling vehicle failure (e.g., wheel fell off)	(Specify):
(specify):	(84) Pedalcyclist or other nonmotorist approaching
(04) Non-disabling vehicle problem (e.g., hood flew	I roadway (specify):
up) (specify):	(85) Pedalcyclist or other nonmotorist—unknown
(O5) Poor road conditions (puddle, pot hole, ice, etc.) (specify):	location (specify):
(06) Traveling too fast for conditions	01:
(08) Other cause of control loss (specify):	Object or Animal
(see ether educe of control loss (specify):	(87) Animal in roadway
(09) Unknown cause of control loss	(88) Animal approaching roadway
100, 0	(89) Animal—unknown location
This Vehicle Traveling	(90) Object in roadway
(10) Over the lane line on left side of travel lane	(91) Object approaching roadway
(11) Over the lane line on right side of travel lane	(92) Object—unknown location
(12) Off the edge of the road on the left side	1001 0:1
(13) Off the edge of the road on the right side	(98) Other critical precrash event (specify):
(14) End departure	(00)
(15) Turning left at intersection	(99) Unknown
(16) Turning right at intersection	
(17) Crossing over (passing through) intersection	5 .0
(19) Unknown travel direction	For Corrective Actions Attempted see variable GV14
() - Common travor direction	(Attemped Avoidance Manuever)
Other Motor Vehicle In Lane	
(50) Stopped	
(51) Traveling in same direction with lower speed	66. Precrash Stability After Avoidance Maneuver
(i.e., lower steady speed or decelerating)	(0) No avoidance maneuver
(52) Traveling in same direction with higher speed	(1) Tracking
(53) Traveling in opposite direction	(2) Skidding longitudinally—rotation less than 30
(54) In crossover	degrees
(55) Backing	(3) Skidding laterally—clockwise rotation
(59) Unknown travel direction of other motor vehicle	(4) Skidding laterally—counterclockwise rotation
in lane	(7) Other vehicle loss-of-control (specify):
	de la company de la control (specify).
Other Motor Vehicle Encroaching Into Lane	(8) No driver present
(60) From adjacent lane (same direction)—over left	(9) Precrash stability unknown
lane line	dikilowij
(61) From adjacent lane (same direction)—over right	
lane line	67. Precrash Directional Consequences of
(62) From opposite direction—over left lane line	Avoidance Maneuver (Corrective Action)
(63) From opposite direction—over right lane line	(0) No avoidance maneuver
(64) From parking lane	
(65) From crossing street, turning into same	(1) Vehicle stayed in travel lane where avoidance
direction	maneuver was initiated
(66) From crossing street, across path	(2) Vehicle stayed on roadway but left travel lane
(67) From crossing street, turning into opposite	where avoidance maneuver was initiated
direction (69) From the second	(3) Vehicle stayed on roadway, not known if left
(68) From crossing street, intended path not known	travel lane where avoidance maneuver was
(70) From driveway, turning into same direction	initiated
(71) From driveway, across path	(4) Vehicle departed roadway
(72) From driveway, turning into opposite direction	(5) Avoidance maneuver initiated off roadway
(/3) From driveway, intended path not known	(8) No driver present
(74) From entrance to limited access highway	(9) Directional consequences unknown
(78) Encroachment by other vehicle—details	10/ Directional consequences unknown
unknown	

*** IF THE CDS APPLICABLE VEHICLE WAS NOT INSPECTED (I.E., GV35 = 0), *** DO NOT COMPLETE THE EXTERIOR AND INTERIOR VEHICLE FORMS.

: :::;

*** IF GV07 DOES NOT EQUAL 01-49, DO NOT COMPLETE ***
THE EXTERIOR VEHICLE, INTERIOR VEHICLE,
OCCUPANT ASSESSMENT, AND OCCUPANT INJURY FORMS.



US Department of Transportation

NATIONAL ACCIDENT SAMPLING SYSTEM **CRASHWORTHINESS DATA SYSTEM**

National Highway Traffic Safety Administration	CRA	ASHPC PRO	JGRAM SU	JMMARY		
Identifying Title		22	Accident Event	Data (ma	ath day year) of Dur	
Primary Sampling Unit	Case No. –	Stratum	Sequence No.	Date (IIIO	nth, day, year) of Run	
CRASHPC Vehicle	Identification					
Vehicle 1 _	199 Z	CHEVRO	LET	CORSICA	/	
Vehicle 2	1990	MIT SUBISM	+1	ECLIPSE	2	
venicie 2 —	Year	Make		Model	NASS	
		OFNEDAL	INCORMATI		Veh. No.	000
		GENERAL	INFORMAT	ON A SAME OF SAME		6.24 Fee
Í	VEHICLE 1	7		VEHICLE	2	
Size		3 7 4 1	Size	2524, 110.	0 (0 1	_
Weight		2144	Weight_		$=\frac{2034}{}$	-
i e	Cocupant(s) Cargo	DEW 1		Curb Occupant(s) Ca	rgo LPEW1	
CDC		+ 10	CDC	u=140	-84	-
PDOF 4 5 61.0	463.2	9	PDOF	1 5 67 1148		<u>-</u>
Stiffness 1	A CONTRACTOR OF THE STATE OF TH		Stiffness	9.		
		TANKS TOWN	VFORMATIO			
Rest and Impact Po	ositions [;] No	Go To Damage	nformation			
	VEHICLE 1			VEHICLE	2	
Rest Position	(4.5)	55	Rest Po	sition	12 2	
l X		n d	X		5 4	-
Υ		$-\frac{3}{7}$	Υ		- 87 d	_
PSI	-		PSI	•		-
Impact Position	Č.	4 4	Impact X	Position	50	,
X I Y	(-2p) -	7 Z	Y		-14 S	-
l T ∛ PSI		85 4	PSI		<u>-8 φ</u>	_
Slip Angle			Slip An	ale		_
Slip Angle		VEHICI	E MOTION			
			L MOTION		The second secon	
Sustained Contact	[] No []	Yes				l
	VEHICLE 1			VEHICLE 2		
Skidding		Vo []Yes	Skidding		[] No [] Yes	ı
Skidding Stop E	Before Rest []	No [] Yes	Skiddiı	ng Stop Before Rest	[] No [] Yes	
End-of-Skidding	Position			-Skidding Position		I
X			×			İ
Y			Y			
PSI			PSI		5 3 44 5 . 13/-	l
Curved Path	[.]	No [] Yes	Curved P		[]No []Yes	Ì
Point on Path X	V		Point o	n ratn		
Rotation Direction		cw []ccw		Direction [] None	[] CW [] CCW	
Rotation > 360		Yes		on > 360° [] No	[] Yes	
			riotatio	555 []110	[] 100	

National Accident Sampling System - Crashworthiness Data System: CrashPC Program Summary

FRICTIO	ON INFORMATION	TRAJECT	ORY INFORMATION
Coefficient of Friction Rolling Resistance C		.5 1	[] No [] Yes
Vahiala 1 Balling I	Danista a sa	Vehicle 1 Steer Ang	ıles
Vehicle 1 Rolling f	RF	LF	RF
	RR	IR	RR
		Vehicle 2 Steer Ang	les
Vehicle 2 Rolling R	lesistance	LF	RF
	RF	LR	RR
LR	RR	Terrain Boundary	[] No [] Yes
···		First Point	
		x	Y
유		Second Point	
		x	Y
		Secondary Fricti	on Coefficient
	DAMAGE	INFORMATION	
선	/EHICLE 1 5 3	•	VEHICLE 2
Damage Length		Damage Length	
Crush Depths	C1	Crush Depths	01
	c2 <u>3.35</u>	Crush Deptils	C1
	c3 <u>2. 9</u>		C3
15 18 18	$C4 - 2 \cdot 2$		C4
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		C5
	C0		C6
Damage Offset	±	Damage Offset	±
IF THIS COMMON IMP	ACT WAS WITH A MOTOR VEHICLE	NOT IN TRANSPORT, FILL IN	THE INFORMATION BELOW.
Model Year:	The	Weight, CDC, Scene Data a	nd Damage Information for
Pake:	this	vehicle should be recorded a	bove.
ភឹodel: /IN:			
44			İ
Complete and	ATTACH the appropriate vehicle	le damage sketch and dimens	sions to the Form.

SUMMARY O F EDCRASH RESULTS

Lic. User: NHTSA #7

S/N: 0266-7 Version: 4.61

Date: **⊢**1995

AB22

"ESSAGES:

..ARNING: The Damage-based DELTA-V(s) differ from the Momentum-based DELTA-V(s) by more than 10 percent. Review the Speed Changes displayed on the SUMMARY OF RESULTS.

If the user-entered scene data (particularly the angles at impact and the rositions at impact and rest) are correct, then the user-entered PDOF's r Damage Data may be suspect. The difference may also be the result of bumper over-ride and the default or user-entered crush stiffness coefficients are too high. Review and adjust the damage data as required.

The Damage-based estimates for damage energy grossly violate \ARNING: ne conservation of energy. Review the output to determine the required corrections to the Damage Data or Scene Data.

energy absorbed by damage (impact) should be approximately equal, whether calculated from Vehicle Damage or Damage & Scene Data. The results are shown below:

Combined Crush Energy:

Damage Data 9911.2 ft-lb Damage and Scene Data 11875.0 ft-lb Linear Momentum 22435.9 ft-lb

Damage-based Velocities:

Veh #1 18.8 mph Veh #2 5.9 mph

WARNING: The separation velocity of the striking vehicle is greater than the separation velocity of the struck vehicle along a line between the v hicle CGs. This implies the striking vehicle is driving through the struck vehicle after impact.

The coefficient of restitution should be positive (this result is displayed i.. the RELATIVE VELOCITY DATA results which follow). This generally means the separation velocity of the striking vehicle should be less than the s paration velocity of the struck vehicle. Check your entered rolling r sistances and scene data to make the required modifications.

IMPACT VEH #1 EH #2	T SPEED (TRAJECT TOTAL 21.8 mph 5.2 mph	FWD.	LAT.	AR MOMENTUM) SIDESLIP 0.0 deg 0.0 deg
SPEED	CHANGE (DAMAGE))		
	TOTAL	FWD.	LAT.	PDOF
EH #1	7.0 mph	-7.0 mph	-0.9 mph	7.3 deg
∨EH #2	7.3 mph	-1.3 mph	7.2 mph	-79.7 deg
SPEED	CHANGE (LINEAR	MOMENTUM)		
•	TOTAL	FWD.	LAT.	PDOF
VEH #1	10.1 mph	-10.0 mph	-1.0 mph	5.5 de q
TEH #2	10.5 mph	-1.5 mph	10.4 mph	-81.5 deg

ENERGY DISSIPATED BY DAMAGE

VEH #1 5982.9 ft-lb 3928.4 ft-lb

RELATIVE VELOCITY DATA

EED ALONG LINE THRU CGS (LINEAR MOMENTUM)

VEH #1 21.6 mph VEH #2 -0.3 mph

SEED ORTHOGONAL TO CG LINE (LINEAR MOMENTUM)

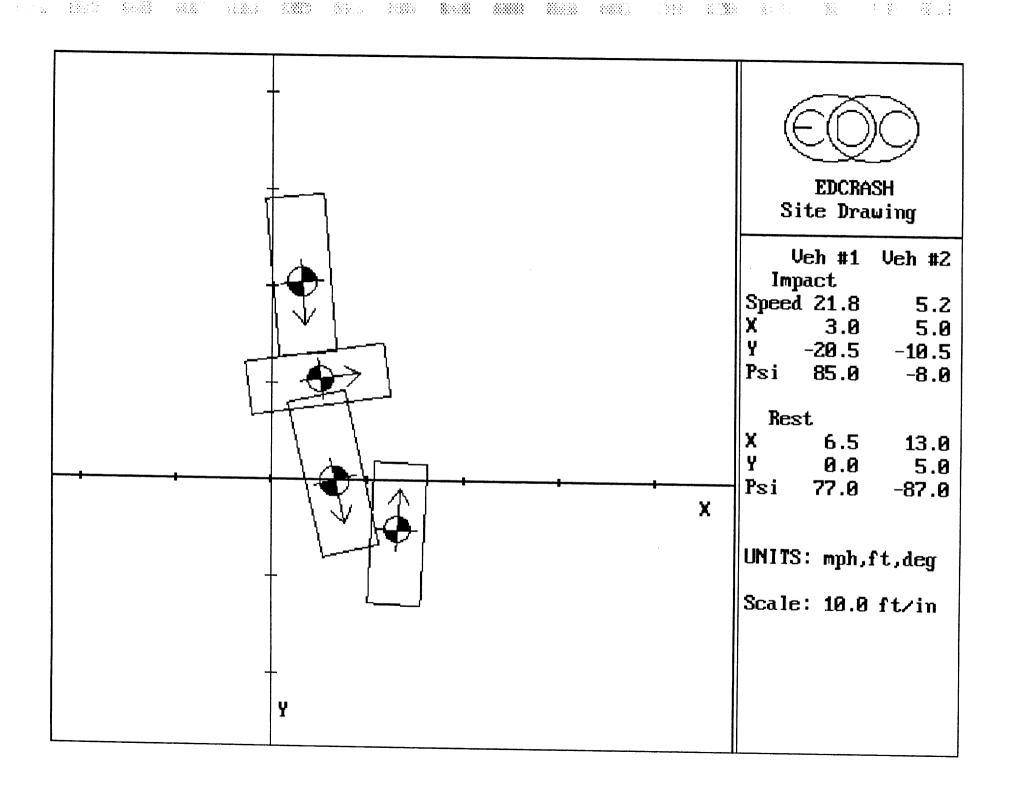
VEH #1 2.4 mph VEH #2 5.2 mph

CLOSING VELOCITY (LINEAR MOMENTUM)

21.3 mph

COEFFICIENT OF RESTITUTION (LINEAR MOMENTUM)

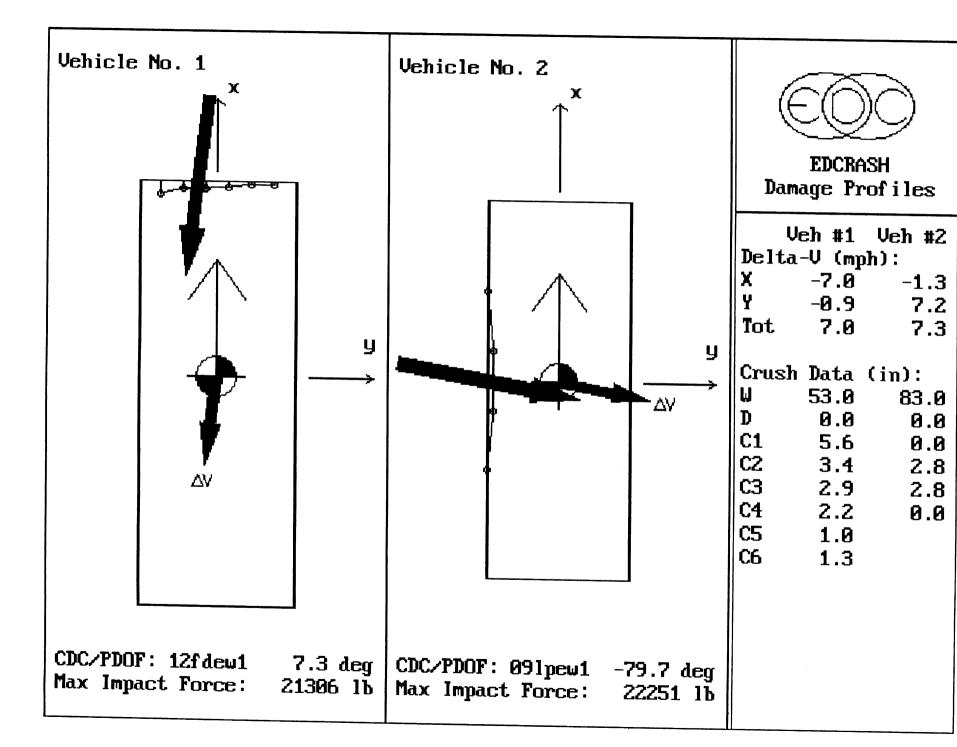
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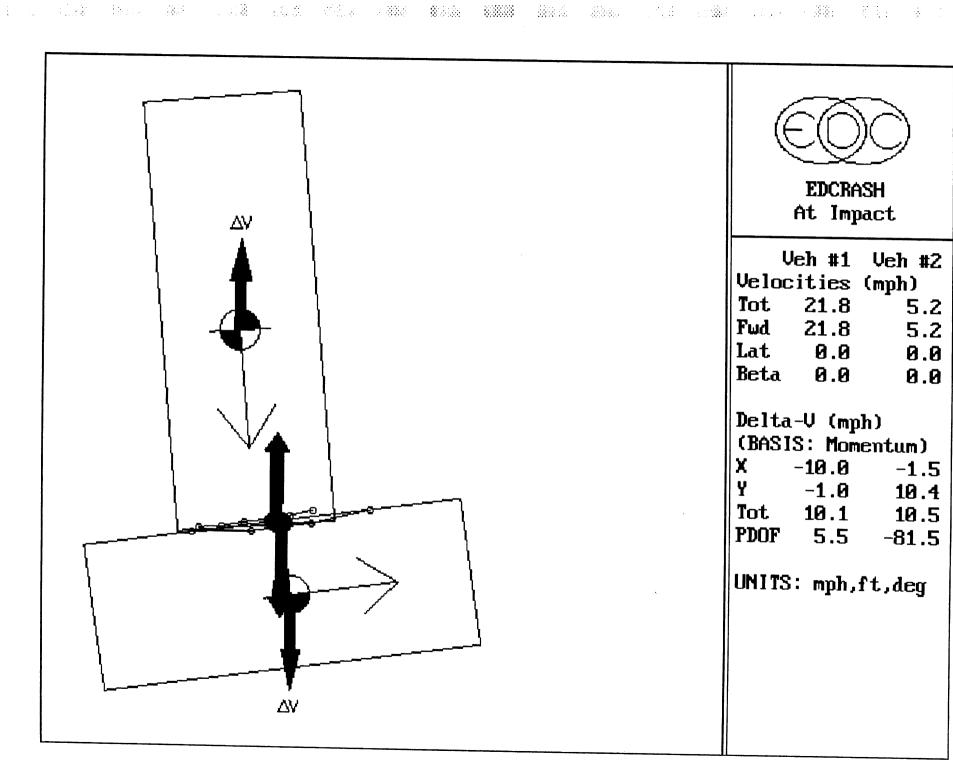
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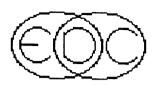
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EDCRASH At Impact

Ļ	en #1	Veh #Z
Veloc	ities	(mph)
Tot	21.8	5.2
Fwd	21.8	5.2
Lat	0.0	9.9
Beta	0.0	9.9

Delta-V (mph) (BASIS: Momentum) -10.0-1.5 -1.010.4 Tot 10.1 10.5 **PDOF** 5.5 -81.5

UNITS: mph,ft,deg

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ACC	CIDENT SUMMARY		10.	Date Vehicle Inspected:	1 94
1. 2.	Accident Date: WINTE/WEET Police Investigated (1) Yes (2) No (3) Unknown	KDAY []	11.	Reason Vehicle Not Inspected (0) Not Required (1) Inspection Completed (2) Cannot be Located (3) Repaired or Destroyed (5) Refusal or Impounded	
	Agency: City: County:			(7) Other:	
3.	General Locality (1) Freeway, Limited Access (2) Urban (City) (3) Urban-Rural (mixed) (4) Rural, Fields	2	12.	Impact Data Obtained (0) No Data Obtained (1) CDC Only (2) Crush Profile Only (3) Trajectory Data Only (4) CDC and Crush Profile (5) CDC and Trajectory	7
4.	Configuration (First Harm) (0) Struck Object or Ped (1) Rear-End (2) Head-On (3) Rear-to-Rear (4) Angle (5) Sideswipe-Same Direction (6) Sideswipe-Opposite Dir. (7) Noncollision	4	13.	 (6) Crush and Trajectory (7) CDC, Crush, and Trajectory Basis of Delta-V (0) Not Computed (Unknown why) (1) CRASH - Damage Only (2) CRASH - Damage + Traj (3) OLDMISS 	2
5.	(8) Nonimpact Deployment (9) Unknown Fire Involved	4		(4) POLES(5) Unknown Basis(6) One Vehicle Beyond Scope(7) Collision Beyond Scope(8) Insufficient Data	
	(0) None(1) Airbag Vehicle(2) Other Vehicle(3) Both Vehicles(9) Unknown		VEHI 14.	CLE HISTORY Prior Impacts for AB Vehicle? (1) Yes	9
6.	Vehicles Involved	1		(2) No (9) Unknown	
7.	Persons Involved	1	15.	Has Any Prior Maintenance or Service Been Performed on System (1) Yes (2) No	2
8.	Injured Persons	1		(9) Unknown	
9.	Maximum AIS in Accident	6	AIRBA	Describe: AG VEHICLE Fleet: NA	
ATRRA	C VEHICLE INSPECTION			VIDE LC LL T 53 T 9 N Y	14

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	Mileage: 15901 KM (9881	41LES)		(04) Fell from vehicle (05) Injured in vehicle	
SYS	TEM READINESS LAMP			(06) Other noncollision (specify	') :
16.	Pro Impact I amp Condition			(07) Overturn	
10.	Pre-Impact Lamp Condition	11		(08) Jackknife	
	(1) Functioning/Proved Out (2) Inoperative			COLLISION WITH:	
	* f •			(09) Pedestrian	
	(9) Unknown			(10) Pedalcyclist	
17	Deinseda Danast af Don Louis			(11) Railway train	
17.	Driver's Report of Pre-Impact	99		(12) Animal	
	Flashing			(13) Motor vehicle in transport	
	(00) No Flashing Reported			(same roadway)	
	(01) Continuous Flashing			(14) Motor vehicle in transport	
	(02)			(other roadway)	
	Number of Flashes:			(15) Parked motor vehicle	
	(11)			(16) Other type nonmotorist (spe	ecify):
	(12) Constant Light			(17) Thrown or falling object	
	(19) Flashing, Unknown Number	_		(18) Boulder	
	(88) Not Applicable, System Remove	d		COLLISION WITH FIXED OB	JECT
	(99) Unknown			(20) Building	
10	B 1 1 0B 7			(21) Impact attenuator/crash cust	hion
18.	Period of Pre-Impact Flashing	9		(22) Bridge pier or abutment	
	(0) No Flashing			(23) Bridge parapet end	
	(1) Same Day as Impact			(24) Bridge rail	
	(2) Prior Day			(25) Guardrail	
	(3) Prior Two Days			(26) Concrete traffic barrier	
	(4) Prior Week			(27) Median barrier	
	(5) Prior Month			(28) Other longitudinal barrier (s	pecify):
	(6) Over One Month			(29) Highway/traffic sign post	
	(9) Unknown			(30) Overhead sign support	
10	D . I I			(31) Luminaire/light support	
19.	Post-Impact Lamp Condition	9		(32) Utility pole	
	(1) Functioning/Proved Out	<u></u>		(33) Other post, pole, or support	
	(2) Inoperative			(34) Culvert	
	(9) Unknown			(35) Curb	
20	T			(36) Ditch	
20.	Post-Impact Flashing	99		(37) Embankment-earth	
	(00) No Flashing Reported			(38) Embankment-rock, stone, or	concrete
	(01) Continuous Flashing			(39) Fence	
	(02)			(40) Wall	
	Number of Flashes:			(41) Fire hydrant	
	(11)			(42) Shrubbery	
	(12) Constant Light			(43) Tree	
	(19) Flashing, Unknown Number			(44) Other fixed object (specify):	
	(88) Not Applicable, System Removed			(45) Pavement surface irregularity	•
	(99) Unknown			(99) Unknown	
21.	Airbag Vehicle First Harmful Event (01) Fire or explosion	13	AIRE	SAG VEHICLE IMPACT SUMMA	RY
	(02) Immersion		22.	Vehicle Role	
	(03) Gas Inhalation			(0) Noncollision	

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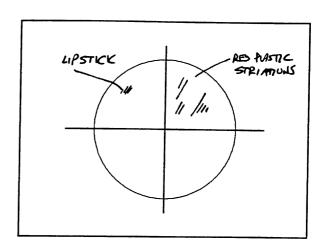
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833 : : 884

	(1) Striking unit (2) Struck unit		31.	Right	5
	(3) Both striking and struck (9) Unknown			(1) Normal (2) Extended	
23.	Manner of Leaving Scene (1) Driven (2) Towed-due to damage	2		(3) Partial Compression(4) Complete Compress(5) Not Applicable(9) Unknown	
	(3) Towed-not for damage (4) Towed-details unknown (5) Abandoned		FIRS	ST AIRBAG VEHICLE IN	ЛРАСТ:
	(9) Unknown		32.	Configuration	
24.	Number of Impact Events (8) 8 or more (9) Unknown	1		(0) Struck Object or Pec (1) Rear-End (2) Head-On (3) Rear-to-Rear	. <u>4</u>
25.	Rollover (0) No rollover (1) First event (2) Subsequent event (3) Yes, Unknown event (9) Unknown	φ		(4) Angle(5) Sideswipe-Same Dir(6) Sideswipe-Opposite(7) Noncollision(8) Nonimpact Deploym(9) Unknown	Dir.
•		F1	33.	CDC:	
26.	Override/Underride (0) No override/underride (1) Override - 1st CDC	4	34.	Object Contacted:	
	(2) Override - Other CDC		PRIM	IARY/DEPLOYMENT IM	IPACT:
	(3) Underride - 1st CDC(4) Underride - Other CDC(9) Unknown		35.	Event Number	1
	AG VEHICLE DAMAGE ES: (1) Yes, damaged (2) No damage		36.	Total Delta-V	1 mpd
	(9) Unknown		37.	Longitudinal Delta-V	1 np4
27.	Left Front Fender Damage	1	38.	Configuration	-
28.	Right Front Fender Damage	2	39.	See 32 above for codes CDC: 2FDEW	
29.	Center Top of Grille Damage	1	40.	Object Contacted: V2	1990 MITSUBISM. ECLLIPSE 3-DR
FRON	T BUMPER E.A. STATUS		AIRBA	AG SYSTEM DAMAGE	
TRON	I DOWLER E.A. STATUS		CODE	S: (1) Yes, Damaged	
30.	Left	3		(2) No, Intact (3) Not Applicable (9) Unknown	

41.	Airbag Module	1
42.	Left Front Sensor	9
43.	Center Front Sensor	9
44.	Right Front Sensor	9
45.	Rear Cowl Sensor	9
46.	Diagnostic Module	9
47.	Wiring	2
48.	Knee Diverter	2



connectors

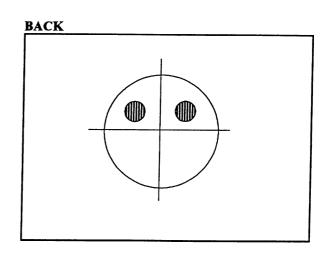
50. Condition of Deployed Bag
(1) Bag intact
(2) Split or torn
(3) Cut by object in impact
(4) Cut after accident
(5) Other
(8) NA (not deployed)
(9) Unknown

Indication of disconnected

or loose electrical

2

1



DESCRIBE SYSTEM AND BAG DAMAGE:

NOTE DAMAGE AND CONTACT MARKS ON AIRBAG DIAGRAMS BELOW:

OCCUPANTS OF AIRBAG CAR

FRONT

49.

51.	Number of Occupants in Vehicle	1			
			52.	Number of Injured Persons	1
			53.	Maximum AIS in Airbag Vehicle (0) No Injury (1-6) AIS Severity (7) Injured, unknown severity (9) Unknown	6
			DRIV	/ER	
				Age: 75	
				Age: 75 Sex: FEMALE	
			54.	Number of Driver Injuries	12
			55.	Source of Best Injury Data (0) Not injured (1) Autopsy (2) Hospital Medical Records (3) Emergency Room only (4) Private physician, clinic (5) Lay Coroner Report (6) EMS Personnel (7) Interviewee (8) Police (9) Unknown	1

MAXIMUM AIS BY BODY REGION

REGION

MAX AIS

CONTACT

Head/Neck/Face Z

MODILE COVER

2

Chest	6	AIR BAG MODULE
Abdomen		
Legs/Hips		INSTRUMENT PAREL
Other (Arms)		
Driver Maximum	<u> </u>	AIRBAG MODULÉ
EJECTION		
Extent:	иA	
Portal:		
OTHER VEHICL	Æ:	
Maximum AIS		_ \phi
Prime/Deploy Imp Event Number	pact w AB Vehicle	<u> </u>
CDC: 10 LPEW	12	
Total Delta V		12 KPH / 7.3 MPH
Make:	MITSUBISHI	
Model Ye	ear: 90	
Model:	ECCLIPSE	
Body Typ	oe: 3-DC	
NOTES:		
DRIVER BELT U	JSAGE: (1) Used	(2) Not Used (9) Unknown
Evidence:		

DRIVER POSTURE: Any comments Recorded (1) Yes, (2) No

FIC COLL	ISION REP	ORT	مم	_	•	•		6 ans	تند	1.12
PECIAL SONOMONS	MANAGE STATES	ALCON.	П				JAGICIA		PAPE PORT HUMBER	
FATAL	MIMBER	HET & PLAN CO.	XINTY	Re	PORTING DISTRE	CT	84	AT		·
COLLISION OCCURRE	OM					MO. DAY	YEAR	TIME (3400)	MCIC #	OFFICER L.D.
MILEPOST INFORMATIO)N					BAY OF W		TOW AWAY	HOTOGRAPHS BY	 /:
AT INTERNECTION		×				SMTW	T/FS	TATE HWY REL		
ORI ARTY DRIVER'S LICENSE NUM		/	STATE	CLASS SAF	ETY VEH YEAR		MAKE / MOD	TL/COLOR		HOME
M HAME (MRST, MIDDLE	. LAST)			C 7-	c 90	1		PS RED	hense	NUMBER
EDES. STREET ADDRESS	· · · ·	·, · · ·	<u> </u>							•••••
			•		OWNER'S N	AME	П	IAME AS DRIVER		
MOLE CITY/STATE/20	-				OWNER'S A	DEBROO	П	AME AS DRIVER		
MC SEX HAIR	1 1	NEONT	SHITHOATE	YEAR RACE		OF VEHICLE ON	OADERS OF	OFFICER	DAVER	OTHER
THER HOME PHONE	340 3 3 7	BURNESS PI		44 W	1 / 300	ANCAL DEFECTS		NONE APPAREN	- N	FER TO NARRATIVE
INSURANCE CARRIER		()	POUCY NUMBER		AEH	USE ONLY CLE TYPE	DESCRIBE	VEHICLE DAMAGE	SHAD	DE IN DAMAGED AREA
DIR. OF ON STREET O	A HOHWAY		PEED PCF	1	 Icc □			MAJOR TO	KOR FAL	
TRAYEL S/B			251		PMC []					
2				C L-G			CORSI	CH' ISED	LICENSE MU	MBER ST
NAME (PRST, MIDDLE, L	AST)				7	· · · · · ·	-, , .	· · · · · · · · · · · · · · · · · · ·	1	· • • • • • • • • • • • • • • • • • • •
STREET ADDRESS		·			OWNER'S MAN	4	Ø "	ME AS ORIVER		
G GTY/STATE/20					OWNER'S ADD	AESS	Ø ***	IE AS DRIVER	 	
		IGHT MO.	STACHTRIE, YE	RACE	DISPOSITION O	F VEHICLE ON OR	DERS OF:	DOFFICER [JORNER _	TOTHER
F BLAO BI	14-9 13	BURNESS PHO	. 3	o H	PRIOR MECHAN				<u> </u>	,
NSURANCE CARRIER		()	LICY MANDER		CHP USE	COLY	DESCRIBE VI	HONE APPARENT		N DAMAGED AREA
GNK							UNK []woa [MAJOR TOTAL		
DIR OF ON STREET OR H	IGHWAY	3	o PCF		PXC				1	
Y PRIVER'S LICENISE NUMBER			STATE CLA	SAFETY SOUP.	TEN YEAR	MAKE	/ MODEL / CO	PLOA	LICENSE NUMBE	ER STATE
NAME (PRST, MODLE, LAS	T)						• • • •	• • • • • • •		• • • • • • • •
- (REET ADDRESS					WHER'S NAME		☐sme.	AS ORIVER		
TY/STATE/DP					WHER'S ADDRES	H		S DRIVER		
SEX HAIR EVEL	B MEIGHT WEDGE	e I	BIRTHOATE	RACE OF	4404/WOW 05 W	51401 5 011 000 5	<u> </u>			
ME PHONE			DAY YEAR			EHCLE OH OADE	nd UF:	O'FRICER O	PAVEA O	THER
()	(ANESS PHONE		~	CHP USE O	MLY I		NONE APPARENT		MARRATIVE AMAGED AREA
INSURANCE CARRIER		POUC	Y MUNICIPA		VEHICLE TV			NOMBLE DINON		
TRAVEL ON STREET OR HOL	WAY	SPEED	PCF				1000 []	ALION TOTAL		▶]
i we		!		OTFED AE	MEMERIE HAME		· - *	- 4	ATE REVIEWED	=
94CE 1 / Pay 1 99 1 001			Z YES NO	□ N/A						1

HAFF	IC COLLISION	N C	TME (300)	<u> </u>					_		<u> </u>			_		's 100 2.
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PROPERTY	OWNER'S MAME! ADDRESS)										<u> </u>				MOTIFIED
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Narrative (X) Collision report Supplemental () other ation:	
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	State Hwy. ()Yes (X)No
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CEIVED THE CALL AT 1503 HRS AND RESPONDED FROM	M THE AREA OF .
. I ARRIVED AT THE LOCATION AT . U	UPON MY ARRIVAL I SAW THAT
E WAS ONE FEMALE SUBJECT (LATER IDENTIFIED AS	P#2) ON THE CTREET AND MILE
WAS BEING GIVEN FULL CPR BY THE FIRE/PARAMEDIC	CS. I SAW THAT VEHICLE #1
	BOUND IN THE #1 WESTROUND TO
AND THAT VEHICLE #2	LIAC
PED FACING WESTBOUND PARTIALLY IN THE #2 LANE A	AND PART IN THE #1 LANE.
ERS STATEMENTS	
#1: : SAID THAT SHE WAS SOUTHBOUND ON	A PPP OA CUTAYO
#1: : SAID THAT SHE WAS SOUTHBOUND ON SHE STOPPED AT THE STOP SIGN ON	APPROACHING
OOKED TO HER LEFT AND THEN TO HER RIGHT AND UP	. AFTER STOPPING
TARTED TO CROSS INTENDING TO GO EASTBOU	IND ON 1 CHUSS TRAFFIC
IDN'T SEE PARTY #2 UNTIL THE VEHICLE HIT HER C	TAD ON SHE SAID THAY
#1 TOLD ME THAT SHE WAS COMING FROM HOME AND	WAS GOING TO A SUPERMARKET
. SHE WAS IN NO HURRY AND WAS F	THIS ATTENTIVE TO HER
NG. SHE SAID THAT SHE HAD SIX AND HALF HOURS O	F SIFFP THAT MODNING CETTLY
6:30 AM. SHE HAS NO EXISTING MEDICAL CONDITION	INC AND THAT CUE HAC TAVING
DICINES OF ANY KIND.	NO MID THAT SHE WAS TAKING
	· ·
LKING TO PARTY #1 SHE WAS FULLY ALERT AND WAS A	AWARE OF HER SURROUNDINGS.
IT NOTICE ANY SYMPTOMS OF ALCOHOL HISE NOD AND A	OTHER CIRCRONAL OF BERLES
THE TANK TO BE OF ALCOHOL USE NOR ANY	OTHER SIMPTOMS OF REDUCED
OT NOTICE ANY SYMPTOMS OF ALCOHOL USE NOR ANY C L STATE. SHE DID COMPLAIN OF A SORE RIGHT HIP W MERGENCY BRAKE IN THE CENTER CONSOLE OF HER VEH	WHICH SHE ATTRIBUTED TO

PARTY #2: NONE AS THE DRIVER WAS UNDER FULL CARDIAC ARREST.

APPROVED:____

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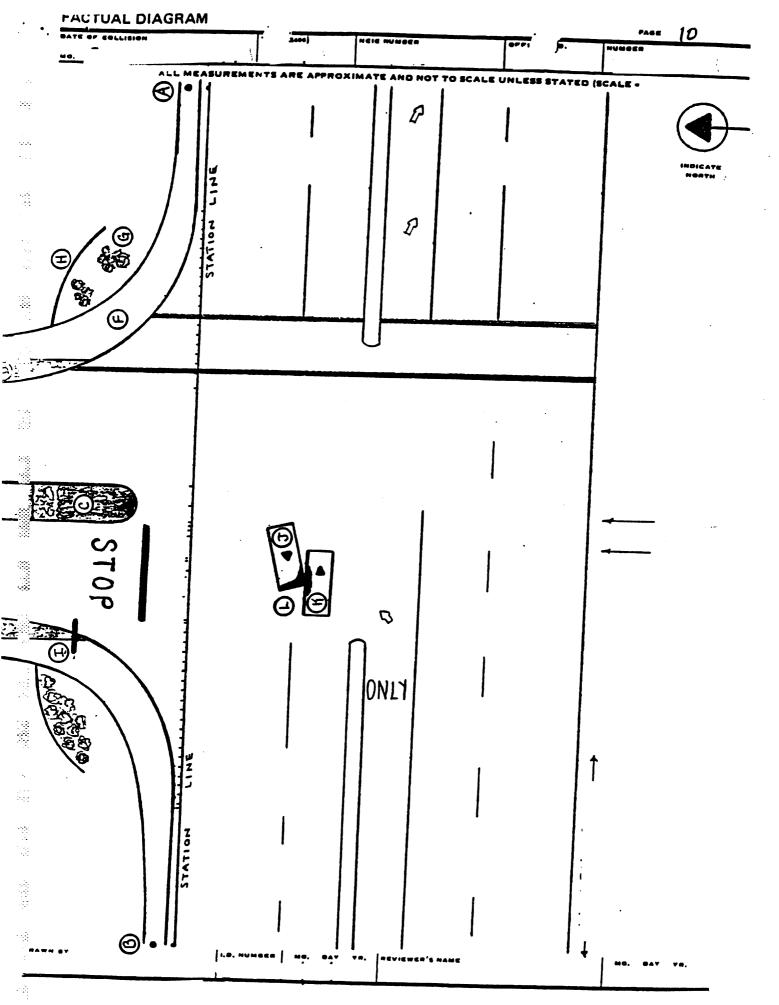
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	GIN STATION	LINE TELEPHO	NE POLE :	#
RE	FERENCE POI	NT ONE : O.C	2 - 4'3"	NO S.L.
<u>.</u>				
B- EN	D STATION I	INE TELEPHON	E POLE =	
RERE	FERENCE POI	NT TWO: 179	19" - 41	3" NO S.L.
C- RA	ISED CENTE	R DIVIDER WIT	H SHRUB	BBERY
7	10" WIDE, 3	4" TALL , 11'	IN LENGT	ГН
D- SH	IRUBS		•	
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5 - 11	JULA IREE	+36'10", 15	· 40 2.	L. 2'WIDE
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J- P3	VEHICLE .	RIR TIRE +9	3'10"	16' 210 5.1.
	(0,15,16)	RIF TIRE +1		18'3" 510 5,6
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				, , , , , , , , , , , , , , , , , , ,
K- P1	VEHICLE	RR TIRE + 106'	9" 28'7'	· 510 S.L.
. . 	72.000	RIFTIRE + 98'S	5", 29'1"	
		LIRTIRE + 106'	9", 23'3"	
FE MAIN	ICS, NUMBER	LIFTIRE + 99'	0",23'7'	· 5/0 S.L.
iev. 7-87) OPI 0	_	- I ECHINIDAT/YEAR A	EVICHEN S NAME	MONTHIDAYIYEAN

- BEST AVAILABLE COPY NARATIVE/SUPPLEMENTAL ON ICEALD. MANGER . YPE SUPPLEMENTAL (TO APPLICABLE PAGE 8 MARRATIVE COLUBION REPORT M UPOATE PATAL HT & RUN UPDATE SUPPLEMENTAL OTHER: MAZARDOUS MATERIALS SCHOOL BUS OTHER CI COUNTY/JUDICAL DISTRIC REPORTING DISTRICT / BEAT CITATION NUMBER LOCATION/SUBJECT STATE HIGHWAY RELATED
YES NO PI VEHICLE RIR TIRE SCUFF MARIL (UNDER PI AND P2 VEHICLES) BEGIN SCUFF +91'0" 15'3" 5/0 S.L. MIN SCUFF +100'6" 1818" 510 5.4. END SCUFF + 106'9" 5 28'3" 6. <u>7.</u> 8. 9. 10. <u>6.</u> ٠, ARE MANE I.D. MUMBER MONTH! DAY!YEAR (Rev. 7-87) OPI 042 88 48641



Narrative

Page 11

		•	
(X) Narrative	(X) Collision report	() BA Update	(X) Fatal
() Supplemental	() other	() Haz Mat () Hit Run	() Bus () Other
	11 23 13	State Hwy. ()Yes (X)No

SCENE INVESTIGATION

DESCRIPTION

This collision occurred on runs through most of the cities in the _____ . It is heavily traveled during commuter hours. The center divider of the highway at the W/B It is heavily lanes is the border of _ is located twenty-six miles East of . It is a predominantly residential community. The runs East-West through the city. is approximately four miles south of the freeway. is a four lane divided highway. There are raised concrete curbs with gutters and sidewalks on the North side of the highway which is the side of the roadway. The South side of the roadway is bordered by a dirt shoulder and a railroad side of the roadway. track approximately thirty feet from the south side of the highway. The location is approximately three miles West of the (a State Hwy.) __ is a truck route in both directions.

Upon arrival at the scene I saw that the ground was dry. There were two vehicles in contact with one another in the intersection. A red Mitsubishi Eclipse, was stopped facing E/B in the number 1 W/B LOT. A red Chevrolet Corsica was stopped facing S/W in the number 1 W/B LOT. There was some evidence of tire brush marks on the roadway surface but no evidence of applied brakes prior to impact. Examination of the Mitsubishi revealed that there was considerable damage to the left side of the vehicle. That vehicle is not equipped with an air bag. Vehicle 2. the red Chevrolet had extensive front end damage. It is equipped with a driver's side air bag which did deploy. There is evidence that the seat belt did lock in place and that there is present some disfigurement of the belt fabric (stretching) which would tend to indicate that it was worn at the time of a severe impact. Refer to photographs of the vehicles taken at the scene by

It also appears from the position of the front driver's side seat that the occupant drove the vehicle in a position very close to the steering wheel. The steering wheel is bent forward. There was little other evidence at the scene. See diagram and legend for measurements.

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OPINIONS AND CONCLUSIONS

1-1-1-

Party 2 was W/B in the number 2 LOT of approaching at approximately 45mph when P-1 (VILLA) who was stopped S/B on began to make a left turn E/B onto after stopping. P-1 had been stopped for several seconds while waiting for traffic to clear. P-1 failed to see P-2 in the oncoming car for an unknown reason. P-1 drove directly into the path of P-2. P-2 swerved slightly to the left crossing into the number 1 LOT but could not brake in time and struck P-2 broadside.

The impact caused the air bag on P-2's vehicle to deploy. Vehicle 2 did not sustain passenger compartment crushing. P-2 however did sustain internal injuries which resulted in her death. refer to "death report".

The _____ Coroner's office advised that the cause of P-2's death was a laceration to the heart. This might have been caused by the deployment of the air bag restraint in such close proximity to the driver who was seated very close to the steering wheel.

P-1 was in violation of VC - Failure to Yield to through traffic when entering a through highway.

RECOMMENDATIONS

This case will be submitted to the District Attorney's office for review and consideration of filling charges of 192(c)(1)PC- Vehicular Manslaughter.

Submitted By

Date __ _

Reviewed by

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* * <u></u>	-CORONER	AUTOPSY REC	יםם:
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lame of Deceased	-	Case No.	
RESIDENCE:			
CITY:		STATIE:	
AGE: 75 years	SEX: Female	RACE: Hispanic	
PLACE OF DEATH:	Hospita	1	
		OF COLUMN PER LOCAL	
DATE OF BEATH		•	
DATE OF DEATH:	<u></u> -	TIME OF DEATH:	
CUSE OF DEATH:	Massive intrathoracic h		
Due to: Due to:	Laceration of heart and	ascending aorta	
Due to:	Blunt force trauma		
O ER COND.:	Severe coronary arterios cardiovascular disease	clerosis and atherosclerotic	
AL OPSY DATE:			
PLACE OF AUTOPSY:	•• • • • · · ·	AUTOPSY TIME:	•
		wantaut	
U DPSY ATTENDANCE:	••		
*** *** **			
ate D.C. ISSUED:		CLASSIFICATION: Traffic	

Lanior Pathologist Witness

Autopsy Surgeon

1000

Page 2

IDENTIFICATION: Seventy-five year old White female. Height, 59 inches. Weight, 128 lbs. Decomposition, absent. Unembalmed. Hair, gray. Rigor, present. Algor, refrigerated. Livor, minimal. Pallor, absent. Nutrition and muscular development, well. Color of the eyes, dark brown. Mouth, dentures on top, edentulous on bottom.

EXTERNAL DESCRIPTION: The body is that of an unembalmed, well developed, well nourished, White female exhibiting female breasts and genitalia. Coroner's tags are present on both big toes. The head appears to be normocephalic with the usual hair distribution. The facial features are unremarkable with no conjunctival hemorrhages. There is abrasion on both sides of the nostrils and brownish abrasion which is yellow, leathery, going from the anterior chin down to the base of the chin area. This is of brownish discoloration, probably because of drying artifact. There is a scar under the left subclavian area of about 2 inches in size, under which there is a pacemaker. Venipuncture needle marks are present, with iodine paint in the epigastric area. Venipuncture needle marks with bruising are on the right antecubital fossa, right wrist, and right inguinal area. An I.V. line with attached fluid bag and armboard is on the left antecubital fossa. There is an old healed surgical scar in the right upper quadrant of the abdomen, and another is in the right paramedian, lower abdomen. An old rectangular shaped scar, 4×4 inches in size, in the anterior left shin. A small abrasion is in the left kneecap and medial aspect of the left big toe. Examination of the hand also reveals the presence of a small 1 inch laceration and contusion on the dorsal aspect of the left hand. There is faded nail polish on the fingernails, and a small abrasion of the left forearm. The back is otherwise clear. There is an abrasion of the left side of the cheek area, also. Photographs of the injuries are taken.

PRIMARY INCISION: The body is opened by the usual Y-shaped incision and the anterior chest plate is removed. There is no fracture to the anterior ribcage; however, there is hemorrhage in the anterior chest wall muscle, which is the pectoral muscle, in the upper portion close to the sternoclavicular joint area. Both sides of the chest cavity are filled with a large amount of blood and blood clot. About 1600 cc's of blood and blood clot are removed from the right chest cavity, and about 600 cc's from the left pleural cavity. The pericardial sac has been lacerated on the right side. Photographs are taken. The abdominal organs are in their normal locations, and the serous surfaces appear to be smooth and glistening.

CARDIOVASCULAR SYSTEM: The heart weighs 370 grams. The pericardial sac is lacerated on the right side with laceration of the right atrium and right atrial appendage. Photographs of the area are taken. The epicardial surface of the heart also shows laceration of about 2 cm. in size with

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around it. There is also another hemorrhagic area noted in the apex of the heart in the adipose tissue. No direct laceration of the apex is identified. The left and right coronary arteries are in their normal locations with moderate to severe arteriosclerosis and segmental calcification on both sides. At places, the coronary arteries are about 60-70% occluded. The left and right sides of the heart are dilated and have no blood in the cardiac chambers. Blood collected for toxicology is from the right side of the chest cavity. There is contusion and laceration of the interventricular septum and a laceration of the right atrium, and also laceration of the right ventricle, close to the interventricular septum. There is also a laceration of the ascending aorta just above the aortic cusp area, probably leading to massive intrathoracic hemorrhage. Photographs of this are taken. The left ventricular wall is 1.5 cm. in thickness, the right is 0.3 cm. Section of the myocardium reveals a lacerated soft myocardium, especially in the interventricular septum area and the right ventricle. A minimal focal area of scarring is noted on both the interventricular septum and the anterolateral wall of the left ventricle, which appears to be intact. No recent myocardial infarction is seen. The cardiac valves show thickening with calcification of the aortic valve. The rest of the cardiac valves are unremarkable. There is laceration of the right atrial appendage, and the left is intact and unremarkable.

There is aneurysmal dilatation in two places, one in the mid-thoracic area and another in the lower abdominal aorta, before the bifurcation. No rupture of this aneurysm is seen. The rest of the abdominal and thoracic aorta has severe arteriosclerosis with mucosal ulceration and dystrophic calcification.

RESPIRATORY SYSTEM: The left lung weighs 260 grams, the right weighs 200 grams. Both lungs appear to be atelectatic, and are otherwise intact and unremarkable. The pleural surfaces have minimal anthracotic pigmentation. Section of the pulmonary artery is unremarkable, as are the major bronchi. Section of the lung parenchyma reveals atelectatic, congested lungs without any trauma, pneumonia or anomalies.

NECK ORGANS: Mucosa of the larynx, trachea and vocal cords are smooth and glistening, as is the mucosa of the pharynx and esophagus. The tongue shows tongue bites with hemorrhage in the tip of the tongue. Photographs of the area are taken. The soft tissues around the neck are unremarkable.

DIAPHRAGM: The diaphragm shows serous fibrous adhesions, and is otherwise unremarkable.

LIVER: The liver weighs 1470 grams. The capsular surface of the liver shows mild irregularity, and is otherwise unremarkable. The gallbladder is

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surgically absent. The vessels in the porta hepatis appear to be unremarkable. Section of the liver parenchyma reveals firm, slightly nodular liver with smooth and glistening surfaces with no cirrhosis or fibrosis.

PANCREAS: The pancreas is normal in size revealing a normal acinar pattern. The pancreatic duct is patent, as is the bile duct, with no fat necrosis or hemorrhage.

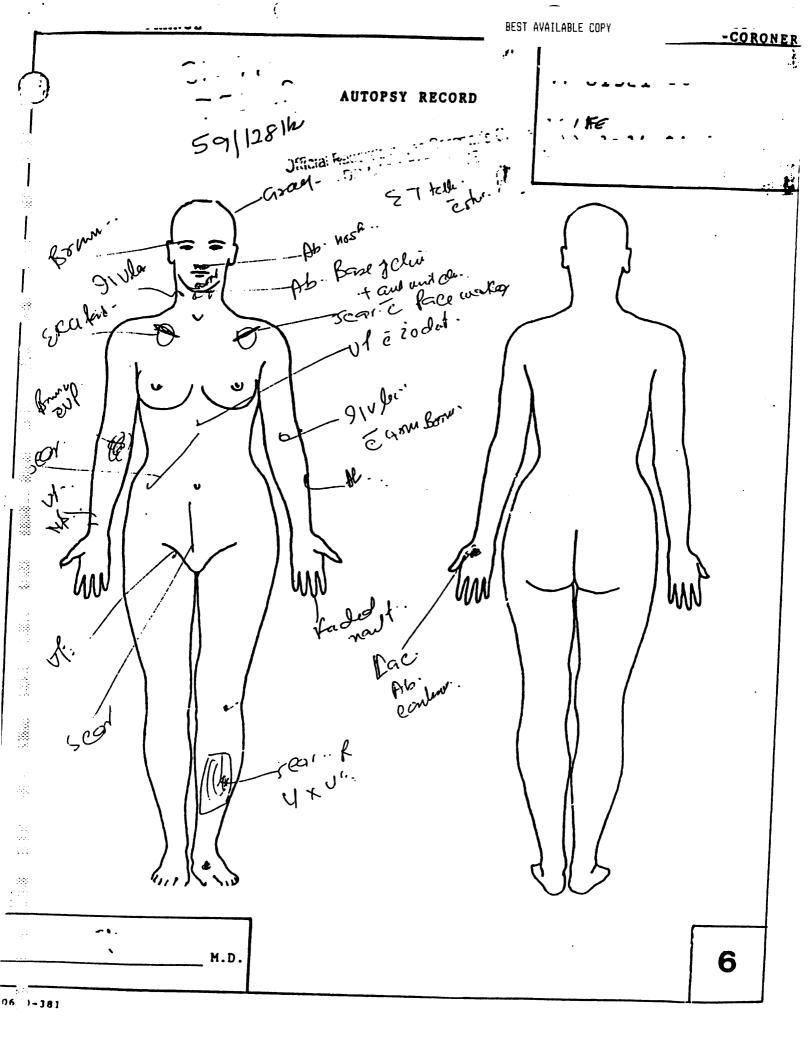
SPLEEN: The spleen weighs 110 grams. The capsular surface of the spleen is smooth and glistening. The cut surface reveals a soft, congested spleen.

ENDOCRINE SYSTEM: Both lobes of the thyroid, the pituitary and the adrenals appear to be soft, congested and unremarkable.

GENITOURINARY SYSTEM: The left and right kidneys are 140 grams each. The capsules strip with ease. The cortical surfaces of both kidneys have marked irregularity, nodularity and scarring. The corticomedullary junctions are otherwise well demarcated, but thinned out. The pyramids are unremarkable. The mucosa of the calyces, pelves and ureters appear to be unremarkable. Both the ureters are patent. The urinary bladder contains no urine, and the mucosa is unremarkable. The uterus, cervix, both tubes and ovaries are surgically absent. The vagina vault is unremarkable.

GASTROINTESTINAL SYSTEM: The stomach has a small amount of solid, semisolid gastric contents. Mucosa of the stomach is smooth and glistening with no gastric ulcer, duodenal ulcer or esophageal varices. The mucosa of the small and large bowel is unremarkable. The appendix is surgically absent. There is no other lesion in the bowel.

CENTRAL NERVOUS SYSTEM: The scalp is reflected in the usual fashion with a few petechial hemorrhages on the inner aspect of the scalp. There is no trauma or fracture to the vault of the skull. Both the temporalis muscles are reflected with no contusion or laceration of the muscle. The calvarium is opened by the usual triple-notch incision. The dorsal surface of the brain is smooth and glistening with no evidence for epidural, subdural or subarachnoidal hemorrhage. The brain weighs 1120 grams. Both lobes of the cerebellum and cerebrum are symmetrical. The cerebral peduncles are midline. The vessels in the circle of Willis have mild arterioscierosis.



REPORT OF TOXICOLOGICAL EXAMINATION

INVESTIGATOR:

Charles Reportes of the Care manual Reportes

NAME OF DECEASED:

DO NOT RAGE! 75

SEX: Female

SPECIMENS SUBMITTED: Postmortem Blood

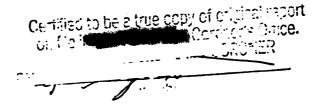
BLOOD RECEIVED BY:

FROM:



Replicate samples of postmortem blood were analyzed for ethanol and other common volatiles employing a headspace gas chromatographic method. None were detected.

Samples of postmortem blood were screened for harbiturates, cocaine, methamphetamine, opiates, and related compounds by RIA. None were



Date typed: "

Dexicologist



BEST AVAILABLE COPY

What follows is a medical consultant's interpretation of the mechanism of injuries on Case DSI-94-AB-22, that of a 75-year-old female with the following injuries:

abrasions to the nares, chin and left cheek, and tongue laceration 2)

contusion to the pectoralis muscle on the anterior chest wall

laceration to the right side of the pericardium 3)

laceration of the ascending aorta

contusion to the opicardium and intrav-ventricular septum 5)

laceration of the heart in the right strial appendage, right ventricle in proximity to the intra-ventricular septum, and the intra-ventricular septum 7)

small laceration to the back of the jeft hand and an abresion to the left upper inner

it appears that this victim died rapidly from exsanguination from cardiac and aortic laceration. These injuries were likely of a compressive-rupture nature rather than a laceration from penetrating rib or stemal ends as there were no fractures to either ribs or sternum. The compression sustained by the sorte and heart could have been secondary to loading from the shoulder component of the beit system, the airbag and its casing, or from impact with the steering wheel hub, or all of the above.

The weight of evidence, I believe, favors a predominant role for the airbag and casing. There is no evidence of seatbelt contusion or abrasion of the skin, and the abrasions to the chin and face and nares are suggestive of contact with the airbag casing and expanding airbag, suggesting victim proximity to the detonating airbag complex. It is not possible to ascertain whether the thoracic injuries were the result of contact with the airbag module cover or the expanding airbag.

It is unlikely that the pacemaker contributed to her injuries, and while her coronary arteries were seen to be partially occluded, this is a normal finding in victims of this age Pega Two

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and not likely to make the heart muscle more susceptible to laceration from external compression.

The kinematics described in your technical report I believe adequately explain the injuries that this victim sustained.

If you have further questions, please don't hesitate to contact me.

Sincerely,